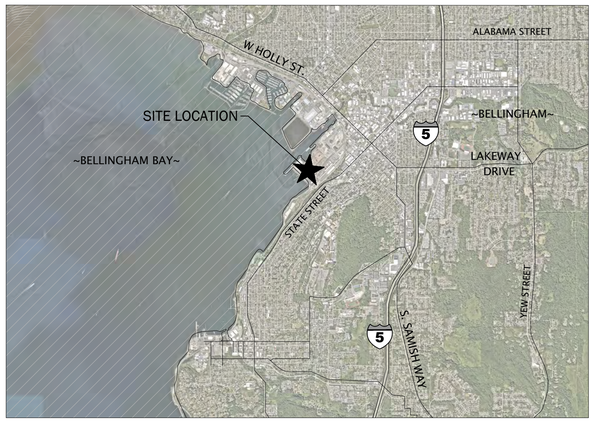
PORT OF BELLINGHAM

100 PERCENT CONSTRUCTION PLANS
OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE
BELLINGHAM, WASHINGTON



TRUE NORTH

PROJECT NORTH

VICINITY MAP

SCALE: 1" = 4000'

0 4000 8000

SCALE IN FEET



TRUE NORTH

PROJECT NORTH

PROJECT AREA

SCALE: 1" = 250'

0 250 500

SCALE IN FEET

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811 Know what's below. Call before you dig.

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REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

JOSEPH ROBERT RIDGWAY — STATE OF WASHINGTON — 24025852 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

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TITLE: COVER SHEET

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

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PROJECT NO.: AS210368B
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SHT 1 OF 37

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GENERAL NOTES

1. THE CONTRACTOR SHALL IMPLEMENT THE WORK ACCORDING TO THIS PLAN SET, TECHNICAL SPECIFICATIONS, STANDARD SPECIFICATIONS, AND SPECIAL PROVISIONS. ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED BY THE ENGINEER.
2. A PRECONSTRUCTION CONFERENCE AND 48 HOURS NOTICE TO OWNER AND ENGINEER (GEOSYNTEC CONSULTANTS) ARE REQUIRED PRIOR TO CONSTRUCTION.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE CONSTRUCTION PLANS AND SPECIFICATIONS ON SITE AT ALL TIMES.
4. THE REQUIREMENTS OF THIS PLAN SET ARE THE MINIMUM REQUIREMENTS. THEY DO NOT REPLACE, REPEAL, ABROGATE, SUPERSEDE, OR AFFECT ANY OTHER MORE STRINGENT REQUIREMENTS, RULES, REGULATIONS, STANDARDS OR RESTRICTIONS.
5. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES THAT ARE INDICATED AS TO BE PROTECTED. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING 811, THE UNDERGROUND LOCATE LINE, A MINIMUM OF 48 HOURS (TWO WORKING DAYS) PRIOR TO ANY EXCAVATION. IT IS THE RESPONSIBILITY OF THE REQUESTER TO MAINTAIN THE MARKINGS AFTER THE INITIAL LOCATE IN ACCORDANCE WITH RCW 19.122.
6. UNLESS NOTED OTHERWISE, UTILITIES SHOWN ON THE PLAN ARE EXISTING, AND ARE LOCATED TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PRINTING. THE CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF AND HAZARD CREATED BY OVERHEAD POWER AND OTHER UTILITIES. THE CONTRACTOR SHALL MEET WITH UTILITY OWNER PRIOR TO CONSTRUCTION AND TAKE WHATEVER PRECAUTIONS ARE REQUIRED BY LAW AND REGULATIONS, UTILITY OWNERS, SAFE CONSTRUCTION PRACTICES, OR AS DIRECTED BY THE ENGINEER.
8. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING UTILITIES, STRUCTURES, SIDEWALKS, PAVEMENTS, AND FACILITIES OUTSIDE OF THE PROJECT LIMITS. ALL DAMAGE OR UNDERMINING SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY REPAIR TO CITY STANDARDS AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, THE COORDINATION OF ALL WORK, SAFETY OF ALL PERSONS AT THE PROJECT LIMITS, AND SHALL COMPLY WITH ALL JOB-RELATED SAFETY STANDARDS. EXCAVATION SLOPES SHALL BE SAFE AND NOT GREATER THAN THE LIMITS SPECIFIED BY LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS INCLUDING, BUT NOT LIMITED TO, APPLICABLE OSHA AND WISHA TRENCHING AND EXCAVATION REGULATIONS.
10. THE CONTRACTOR SHALL MEET THE CONDITIONS OF ALL PROJECT PERMITS AND LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
11. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AT THE CONSTRUCTION ENTRANCES TO AVOID CONFLICT WITH VEHICULAR, PEDESTRIAN, AND BICYCLE TRAFFIC IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
12. THE CONTRACTOR SHALL KEEP AFFECTED OFFSITE STREETS CLEAN, AS DETERMINED BY THE ENGINEER, AT ALL TIMES.
13. THE CONTRACTOR IS RESPONSIBLE FOR SURVEY OF WORK PRIOR TO, DURING, AND AT COMPLETION OF THE WORK IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS.
14. THE CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER IF THERE ARE DISCREPANCIES WITH THE PLANS.

WATER MANAGEMENT AND DEWATERING

1. THE CONTRACTOR SHALL KEEP EXCAVATION AND OBSTRUCTION REMOVAL AREAS FREE OF STANDING WATER IN ACCORDANCE WITH THE ISS AND EXCAVATION NOTES AND THE TECHNICAL SPECIFICATIONS.
2. WATER THAT ACCUMULATES WITHIN LINED AND BERMED STOCKPILE AREAS FOR ELEMENTAL MERCURY-IMPACTED SOILS, ELEMENTAL MERCURY-IMPACTED CONCRETE, AND ELEMENTAL MERCURY-IMPACTED TIMBER PILES, AS WELL AS WITHIN THE DECONTAMINATION PAD, SHALL BE COLLECTED AND MANAGED TO PREVENT UNCONTROLLED DISCHARGE. FOR COVERED PCS OR OTHER NON-ELEMENTAL-MERCURY-IMPACTED SOIL STOCKPILE AREAS, UNCONTROLLED DISCHARGE SHALL PRIMARILY BE PREVENTED THROUGH PASSIVE MEASURES (E.G., COVERS, GRADING, AND RUNON/RUNOFF CONTROLS); ACTIVE COLLECTION AND CONTAINMENT SHALL BE IMPLEMENTED ONLY WHEN NECESSARY TO MAINTAIN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
3. COLLECTED WATER SHALL BE PUMPED TO FRAC TANKS OR OTHER ENGINEER-ACCEPTED CONTAINMENT SYSTEMS LOCATED ONSITE.
4. COLLECTED WATER SHALL BE TREATED, IF NECESSARY, AND DISCHARGED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND APPLICABLE APPROVALS. DISCHARGE IS ANTICIPATED TO BE TO ONSITE CATCH BASIN(S) WITHIN PROJECT LIMITS THAT CONVEY FLOW TO THE PORT OF BELLINGHAM'S AERATION STABILIZATION BASIN (ASB), UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

PROJECT SCOPE AND WORK DESCRIPTION

1. THE WORK INCLUDES EXCAVATION AND OFF-SITE DISPOSAL OF PETROLEUM CONTAMINATED SOIL (PCS) AND OTHER NON-HAZARDOUS SOILS, AND REMOVAL AND OFF-SITE DISPOSAL OF STRUCTURES, OBSTRUCTIONS, AND DEBRIS IMPACTED BY ELEMENTAL MERCURY. THE WORK ALSO INCLUDES EXCAVATION, TEMPORARY STOCKPILING, BACKFILLING, AND IN SITU SOLIDIFICATION (ISS) OF ELEMENTAL MERCURY-IMPACTED SOILS. THE WORK ALSO INCLUDES UTILITY ABANDONMENT AND CONSTRUCTION, BUILDING DEMOLITION, DEWATERING, WATER MANAGEMENT, AND WASTE MANAGEMENT FOR ALL MATERIALS GENERATED.
2. THE WORK PRESENTED IN THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND REQUIREMENTS FOR ENVIRONMENTAL CLEANUP CONSTRUCTION SITES.

ISS AND EXCAVATION NOTES

1. THE CONTRACTOR SHALL REFERENCE THE CONTRACT DOCUMENTS FOR AVAILABLE INFORMATION ON SOILS, GROUNDWATER CONDITIONS, AND KNOWN OR ANTICIPATED OBSTRUCTIONS WITHIN THE WORK LIMITS.
2. EXCAVATIONS SHALL BE CONDUCTED IN A MANNER THAT MAINTAINS EXCAVATION STABILITY AND WORKER SAFETY AND COMPLIES WITH APPLICABLE OSHA, WISHA, AND WASHINGTON STATE REGULATIONS AND REQUIREMENTS, AS WELL AS THE TECHNICAL SPECIFICATIONS.
3. FOR EXCAVATIONS EXCEEDING DEPTHS GREATER THAN 4 FEET BELOW SURROUNDING GRADE, TEMPORARY SLOPES AND/OR EXCAVATION SUPPORT SHALL BE PROVIDED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND APPLICABLE SAFETY REGULATIONS. WHERE SLOPES ARE USED WITHOUT STRUCTURAL SUPPORTS, SLOPES SHALL NOT BE STEEPER THAN THOSE ALLOWED BY THE CONTRACT DOCUMENTS; TEMPORARY SLOPES MAY BE INCLINED AS STEEP AS 1H:1V ONLY WHERE ALLOWED BY THE TECHNICAL SPECIFICATIONS AND FIELD CONDITIONS (E.G., DEWATERING, NO WORKER ENTRY, COMPETENT PERSON MONITORING), OTHERWISE SLOPES SHOULD BE INCLINED NO STEEPER THAN 1.5H:1V CONSISTENT WITH REQUIREMENTS FOR TYPE C SOIL.
4. ALL GRADING SHALL BE LIMITED TO THE AREAS IDENTIFIED ON THE PLANS AND SHALL NOT INFRINGE ADJACENT PROPERTIES.
5. EXCAVATION, BACKFILL, COMPACTION, AND ISS-RELATED EARTHWORK SHALL BE COMPLETED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
6. THE CONTRACTOR SHALL PROVIDE THE ENGINEER ACCOMMODATION TO PERFORM SURVEYS AND LAYOUT ACTIVITIES ASSOCIATED WITH EXCAVATION AND ISS LIMITS AND ELEVATIONS.
7. THE CONTRACTOR SHALL ASSIST THE ENGINEER WITH COLLECTION OF SAMPLES OF ISS-TREATED SOILS THE SAME DAY THEY ARE MIXED, IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND ENGINEER DIRECTION.
8. THE EXCAVATION BOTTOM SHALL BE KEPT FREE OF STANDING WATER DURING EXCAVATION, OBSTRUCTION REMOVAL, AND BACKFILL OPERATIONS, CONSISTENT WITH THE TECHNICAL SPECIFICATIONS.
9. THE CONTRACTOR SHALL SEQUENCE EXCAVATION AND OBSTRUCTION REMOVAL OPERATIONS TO MINIMIZE OPEN TREATMENT AREAS. OBSTRUCTION REMOVAL AND PREPATORY EXCAVATION SHALL BE PERFORMED IN CELLS WITHIN EACH ISS AREA, WITH EACH CELL COMPLETED THROUGH OBSTRUCTION REMOVAL, BACKFILLING, AND TEMPORARY CLOSURE PRIOR TO INITIATING OBSTRUCTION REMOVAL IN THE NEXT CELL. OBSTRUCTION REMOVAL AND PREPATORY EXCAVATION SHALL BE COMPLETED IN ALL CELLS WITHIN A GIVEN ISS AREA PRIOR TO INITIATING ANY ISS OPERATIONS IN THAT AREA. ISS OPERATIONS SHALL BE SEQUENCED AND PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROVED ISS WORK PLAN AND CONTRACTOR-SELECTED MEANS AND METHODS.
10. ANY OVER-EXCAVATION PERFORMED BY THE CONTRACTOR WITHOUT THE DIRECTION OF THE ENGINEER SHALL BE AT THE CONTRACTOR'S EXPENSE. EXCAVATION REQUIRED TO REMOVE OBSTRUCTIONS, FACILITATE ISS OPERATIONS, OR OTHERWISE APPROVED BY THE ENGINEER SHALL NOT BE CONSIDERED UNAUTHORIZED OVER-EXCAVATION.

MINIMUM HANDLING AND DISPOSAL REQUIREMENTS FOR CONTAMINATED MATERIALS

1. CONTRACTOR REQUIREMENTS FOR HANDLING, TEMPORARY STORAGE, TRANSPORTATION, AND DISPOSAL OF CONTAMINATED SOIL, DEBRIS, AND WATER ARE PRESENTED IN THE TECHNICAL SPECIFICATIONS.
2. EXCAVATED SOILS AND MATERIALS SHALL BE SEGREGATED AND MANAGED INTO THE FOLLOWING GENERAL WASTE CATEGORIES, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS:
   (A) MATERIALS NOT IMPACTED BY ELEMENTAL MERCURY, INCLUDING PCS AND OTHER NON-HAZARDOUS SOILS; AND
   (B) ELEMENTAL MERCURY-IMPACTED MATERIALS, INCLUDING CONCRETE AND TIMBERS.
3. MATERIALS NOT IMPACTED BY ELEMENTAL MERCURY SHALL BE MANAGED SEPARATELY FROM ELEMENTAL MERCURY-IMPACTED MATERIALS. SUBSEGREGATION OF SOILS NOT IMPACTED BY ELEMENTAL MERCURY (E.G., PCS VERSUS OTHER SOILS) SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. ELEMENTAL MERCURY-IMPACTED CONCRETE AND ELEMENTAL MERCURY-IMPACTED TIMBERS SHALL BE MANAGED IN SEPARATE, LINED, AND BERMED STOCKPILE AREAS FOR MATERIAL CONTROL AND TONNAGE TRACKING. THESE MATERIALS SHALL BE DISPOSED AS HAZARDOUS WASTE DEBRIS IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
5. TEMPORARY STOCKPILING, IF REQUIRED, SHALL BE LIMITED TO ENGINEER-ACCEPTED STOCKPILE AREAS.
   (A) STOCKPILE AREAS FOR ELEMENTAL MERCURY-IMPACTED MATERIALS SHALL BE LINED AND BERMED TO PREVENT STORMWATER RUNON AND RUNOFF AND SHALL BE COVERED WHEN NOT ACTIVELY BEING LOADED OR WORKED IN.
   (B) STOCKPILE AREAS FOR SOILS NOT IMPACTED BY ELEMENTAL MERCURY SHALL BE COVERED WHEN NOT ACTIVELY BEING LOADED OR WORKED IN BUT ARE NOT REQUIRED TO BE LINED OR BERMED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. ALL CONTAMINATED SOILS AND ELEMENTAL MERCURY-IMPACTED MATERIALS SHALL BE LOADED AND TRANSPORTED OFFSITE TO PERMITTED DISPOSAL FACILITIES IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND APPLICABLE REGULATIONS.
7. TRUCKS HAULING CONTAMINATED SOILS OR MATERIALS MUST BE COVERED DURING TRANSPORT FROM THE TIME THEY LEAVE THE PROJECT SITE UNTIL OFFLOADING AT THE DISPOSAL FACILITY.

ABBREVIATIONS

AF	AUDITOR'S FILE
AFN	AUDITOR'S FILE NUMBER
ASB	AERATED STABILIZATION BASIN
AVE	AVENUE
BGS	BELOW EXISTING GROUND SURFACE
BLDG	BUILDING
BMP	BEST MANAGEMENT PRACTICE
BNSF	BURLINGTON NUMBER SANTA FE
CB	CATCH BASIN
CF	CUBIC FEET
CSBC	CRUSHED SURFACE BASE COURSE
CY	CUBIC YARDS
DEMO	DEMOLITION
DI	DUCTILE IRON
DIA	DIAMETER
EL	ELEVATION
FDC	FIRE DEPARTMENT CONNECTION
FT	FEET
GBSP	GENERAL BINDING SITE PLAN
HMA	HOT MIX ASPHALT
IE	INVERT ELEVATION
ISS	IN SITU SOLIDIFICATION
MH	MANHOLE
MHHW	MEAN HIGHER HIGH WATER
MHW	MEAN HIGH WATER
MLLW	MEAN LOWER LOW WATER
MLW	MEAN LOW WATER
MSL	MEAN SEA LEVEL
MTL	MEAN TIDE LEVEL
MW	MONITORING WELL
NAD83	NORTH AMERICAN DATUM OF 1983
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD29	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NO	NUMBER
OHW	ORDINARY HIGH WATER
ORD	ORDINANCE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PCS	PETROLEUM CONTAMINATED SOIL
PSSP	POLYETHYLENE STORM SEWER PIPE
RCW	REVISED CODE OF WASHINGTON
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY
RR	RAILROAD
R/W	RIGHT OF WAY
SD	STORM DRAIN
SF	SQUARE FEET
ST	STREET
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
USFT	US SURVEY-FOOT
VAC	VACATED
WISHA	WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT

CONSTRUCTION NOTES AND PROPOSED SEQUENCE

1. ACCESS TO GRANITE LEASE AREA SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT.
2. LOCATE ALL EXISTING UTILITIES VIA PUBLIC AND PRIVATE LOCATES.
3. PROVIDE CONSTRUCTION FENCING, SIGNAGE, AND BARRIERS AS NEEDED TO PREVENT UNAUTHORIZED ACCESS TO THE PROJECT SITE. COORDINATE WITH THE ENGINEER TO FIELD ADJUST FENCING AS REQUIRED FOR SPECIFIC SITE CONDITIONS. INSTALL ELECTRICAL UTILITIES AND TEMPORARY FACILITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. PRIOR TO INITIATING EARTHWORK, CONSTRUCT LINED AND BERMED STOCKPILE AREAS FOR ELEMENTAL MERCURY-IMPACTED SOILS, ELEMENTAL MERCURY-IMPACTED TIMBER PILES, AND ELEMENTAL MERCURY-IMPACTED CONCRETE. CONSTRUCT A DECONTAMINATION PAD AND FURNISH FRAC TANKS WITH SECONDARY CONTAINMENT. INSTALL AND MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
5. DEMOLISH PORT ABCD BUILDING TO SURROUNDING EXISTING GRADE AND EXPORT ALL BUILDING MATERIALS.
6. GENERAL OBSTRUCTION REMOVAL, EXCAVATION, AND ISS SEQUENCE OF WORK
   - 6.1. MOBILIZE AND SET UP BATCH PLANT TO SUPPORT ISS OPERATIONS.
   - 6.2. MARK LIMITS OF AREAS TO BE EXCAVATED AND TREATED.
   - 6.3. PERFORM ISS STARTUP DEMONSTRATION/EVALUATION IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
   - 6.4. FOR EACH ISS AREA (AREAS A THROUGH E), REMOVE SURFACE PAVEMENT AND ASSOCIATED SUBGRADE MATERIALS. PAVEMENT REMOVAL SHALL OCCUR JUST PRIOR TO INITIATING WORK IN EACH AREA TO MINIMIZE EXPOSURE OF UNDERLYING MATERIALS.
   - 6.5. ISS AREA A - OBSTRUCTION REMOVAL
     PERFORM OBSTRUCTION REMOVAL AND PREPARATORY EXCAVATION IN CELLS. CELL SIZES MAY BE DETERMINED BY THE CONTRACTOR, PROVIDED THAT CELLS CAN BE BACKFILLED, COVERED, OR OTHERWISE CLOSED AT THE END OF EACH WORK DAY TO LIMIT MERCURY EMISSIONS AND DO NOT EXPOSE A CONTINUOUS AREA OF THE AQUITARD GREATER THAN 25 FEET BY 25 FEET. TEMPORARY SHORING OR EXCAVATION SUPPORT IS REQUIRED FOR EXCAVATIONS ASSOCIATED WITH REMOVAL OF PILE CAPS AND TIMBER PILE GROUPS.
     FOR EACH CELL, THE GENERAL SEQUENCE SHALL INCLUDE:
     - 6.5.1. EXCAVATE SOIL AS NECESSARY TO FACILITATE REMOVAL OF SUBSURFACE OBSTRUCTIONS. SOILS SHALL BE TEMPORARY STOCKPILED IN ENGINEER-ACCEPTED STOCKPILE AREAS.
     - 6.5.2. REMOVE SUBSURFACE OBSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, GRADE BEAMS, PILE CAPS, STEM WALLS, AND TIMBER PILES.
     - 6.5.3 WHERE APPLICABLE, INSTALL EXPANSIVE DEMOLITION AGENTS (E.G., DEXPAN OR ENGINEER-ACCEPTED EQUIVALENT) IN MASS CONCRETE ELEMENTS AND ALLOW TO EXPAND PRIOR TO BREAKING. DURING THIS PERIOD, AND FOLLOWING COMPLETION OF OBSTRUCTION REMOVAL IN A CELL, INSTALL TEMPORARY COVERS OR BARRIERS TO PROVIDE VAPOR CONTROL AND LIMIT EXPOSURE (E.G., PLASTIC SHEETING, STEEL PLATE, PLYWOOD, OR OTHER ENGINEER-ACCEPTED MEANS).
     - 6.5.4. TIMBER PILES SHALL BE CUT AT ELEVATION -0.5 FEET NAVD88 TO 1 FOOT BELOW THE TOP OF THE AQUITARD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
     - 6.5.5. FOLLOWING OBSTRUCTION REMOVAL, RETURN STOCKPILED SOILS TO THE CELL, BACKFILL AS NECESSARY, AND CLOSE THE CELL AT THE END OF THE WORK DAY USING TEMPORARY COVERS OR BARRIERS TO PROVIDE VAPOR CONTROL. TEMPORARY VAPOR CONTROL MEASURES (E.G., COVERS, BARRIERS, OR OTHER PASSIVE CONTROLS) SHALL REMAIN IN PLACE WHEN CELLS OR DISTURBED AREAS ARE NOT ACTIVELY BEING WORKED IN.
     - 6.5.6. CUT, CAP, AND/OR PLUG UTILITIES ENCOUNTERED DURING OBSTRUCTION REMOVAL.
     - 6.5.7. IN AREAS WHERE PCS EXCAVATION OVERLAPS OBSTRUCTION REMOVAL WITHIN ISS AREA A, EXCAVATION MAY EXTEND BELOW THE PCS ZONE TO FACILITATE OBSTRUCTION REMOVAL. IN THESE AREAS, SOILS SHALL BE SEGREGATED BY DEPTH DURING EXCAVATION, WITH PCS REMOVED FOR OFFSITE DISPOSAL AND ELEMENTAL MERCURY-IMPACTED SOILS EXCAVATED ONLY AS NECESSARY TO REMOVE OBSTRUCTIONS AND RETURNED TO THE CELL. EXCAVATION GEOMETRY AND SUPPORT (E.G., SHORING, BENCHING, OR SLOPING) SHALL BE IMPLEMENTED AS NECESSARY TO MAINTAIN STABILITY AND MATERIAL SEGREGATION.
   - 6.6. ISS AREAS B, C, D, AND E
     OBSTRUCTION REMOVAL AND PREPARATORY EXCAVATION IN ISS AREAS B THROUGH E WILL GENERALLY FOLLOW THE SAME CELL-BASED APPROACH DESCRIBED ABOVE FOR ISS AREA A. OBSTRUCTIONS IN THESE AREAS ARE ANTICIPATED TO BE FEWER AND LESS REGULAR; THEREFORE, CELL GEOMETRY, DEMOLITION METHODS, AND USE OF EXPANSIVE DEMOLITION AGENTS MAY VARY BY LOCATION. ANY DISTURBED SOILS OR MATERIALS IN THESE AREAS SHALL BE BACKFILLED, COVERED, OR OTHERWISE PROTECTED WITH TEMPORARY VAPOR CONTROL MEASURES WHEN NOT ACTIVELY BEING WORKED IN. TEMPORARY SHORING OR EXCAVATION SUPPORT IS REQUIRED FOR EXCAVATIONS ASSOCIATED WITH REMOVAL OF PILE CAPS AND TIMBER PILE GROUPS.
   - 6.7. ELEMENTAL MERCURY-IMPACTED TIMBER PILES AND CONCRETE REMOVED DURING OBSTRUCTION REMOVAL SHALL BE MANAGED IN SEGREGATED, LINED, AND BERMED STOCKPILE AREAS AND TRANSPORTED OFFSITE FOR DISPOSAL AT APPROVED FACILITIES.
     - 6.7.1. OBSTRUCTIONS ENCOUNTERED WITHIN PCS EXCAVATION AREAS SHALL BE SEGREGATED AND MANAGED BASED ON MATERIAL TYPE AND CONTAMINATION, AND DISPOSED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
   - 6.8. FOLLOWING COMPLETION OF OBSTRUCTION REMOVAL WITHIN THE ISS AREAS, EXCAVATE PCS AND SOILS FROM DESIGNATED ISS SWELL MANAGEMENT AREAS OUTSIDE OF THE ISS AREAS FOR OFFSITE DISPOSAL. ELEMENTAL MERCURY-IMPACTED SOILS AND MATERIALS SHALL BE MANAGED SEPARATELY FROM ALL OTHER SOILS AND MATERIALS.
   - 6.9. UPON COMPLETION OF PCS AND ISS SWELL MANAGEMENT AREA EXCAVATION ACTIVITIES, REMOVE TIMBER PILES, TEMPORARY COVERS AND EXCAVATION SUPPORTS, AS APPLICABLE, AT THE BOUNDARY OF ISS AREAS, AS SHOWN ON THE DRAWINGS. RELOCATE SOILS INTO PCS AND ADDITIONAL EXCAVATION AREAS TO BE TREATED BY ISS, GRADE THE SURFACE AS SHOWN ON THE DRAWINGS TO ACHIEVE DESIGN ELEVATIONS ACCOUNTING FOR ANTICIPATED VOLUMETRIC EXPANSION OF THE SOIL (I.E., "SWELL"), AND PREPARE THE AREA FOR ISS OPERATIONS.
   - 6.10. PERFORM ISS BY PHYSICALLY MIXING PREPARED SOILS WITH THE SPECIFIED REAGENTS IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
7. INSTALL STORMWATER STRUCTURES, CATCH BASINS AND PIPE AS SHOWN ON THE DRAWINGS.
8. BACKFILL, CAPPING, AND SURFACE RESTORATION
   - 8.1. INSTALL SEPARATION GEOTEXTILE ON SUBGRADES WHERE INDICATED.
   - 8.2. BACKFILL EXCAVATIONS USING IMPORTED MATERIAL OR MATERIAL SALVAGED FROM PREVIOUSLY EXISTING CAPPED AREAS AND DEEMED SUITABLE FOR ONSITE REUSE BY THE ENGINEER. CONSTRUCT FINAL CAPPING AND SURFACE RESTORATION, INCLUDING ASPHALT PAVEMENT, AS SHOWN ON THE DRAWINGS.
   - 8.3. PERFORM A FINAL SITE WALK WITH THE ENGINEER AND OWNER PRIOR TO DEMOBILIZATION.

SURVEY NOTES for WILSON ENGINEERING SURVEY, DATED OCT. 26, 2023:

HORIZONTAL DATUM:
NAD83(1998) WASHINGTON STATE PLANE (NORTH ZONE) US SURVEY-FOOT (USFT). COORDINATION PER PROXIMATE CITY OF BELLINGHAM CADASTRAL SURVEY CONTROL POINTS AS NOTED BELOW.

BASIS OF COORDINATES: COORDINATION AND MENSURATION ARE LOCAL GROUND VALUES, BASED UPON HOLDING THE PUBLISHED CITY OF BELLINGHAM NAD83 (1998) POSITION FOR THE BRASS-DISK MONUMENT AT THE INTERSECTION OF CORNWALL AVENUE AND PINE STREET, PUBLISHED AS CITY OF BELLINGHAM CADASTRAL CONTROL POINT #588. SAID MONUMENT HAS THE FOLLOWING PUBLISHED POSITION:

NORTHING = 639,988.160 USFT
EASTING = 1,240,757.742 USFT

BASIS OF BEARINGS: BEARINGS ARE CITY OF BELLINGHAM/ NA83(1998) STATE PLANE GRID, BASED UPON HOLDING THE PUBLISHED POSITIONS MONUMENTED BY BELLINGHAM CADASTRAL SURVEY CONTROL POINTS #588 AND #592, THE LATTER BEING A BRASS-DISK MONUMENT AT THE INTERSECTION OF CORNWALL AVENUE AND WEST LAUREL STREET.

THE DERIVED INVERSE BETWEEN SAID MONUMENTS # 588 AND #592 IS NORTH 45° 43' 58" EAST, AT A DISTANCE OF 2079.85 USFT. THE PUBLISHED POSITION FOR THE BELLINGHAM CITY CADASTRAL MONUMENT # 592 IS:

NORTHING = 641,439.911 USFT
EASTING = 1,242,247.107 USFT

VERTICAL DATUM:
NAVD88 PER THE AMENDED WATERFRONT CONTROL NETWORK RECORD OF SURVEY, AFN 2080302393.

BASIS OF ELEVATIONS: ELEVATIONS ARE NAVD88 VALUES, BASED UPON HOLDING THE PUBLISHED ELEVATION FOR BELLINGHAM CADASTRAL SURVEY MONUMENT #588, BEING A BRASS-DISK MONUMENT AT THE THE INTERSECTION OF CORNWALL AVENUE AND PINE STREET. SAID MONUMENT HAS THE FOLLOWING PUBLISHED NAVD88 ELEVATION:
ELEVATION = 13.35 FEET

THE CONTRACTOR SHALL PROTECT SURVEY CONTROL MONUMENTS AND SHALL PROVIDE ACCESS AND ACCOMMODATION TO THE ENGINEER FOR SURVEYING AND VERIFICATION AS REQUIRED DURING THE WORK

SURVEY NOTES for PACIFIC SURVEYING & ENGINEERING, DATED APR. 27, 2026:

HORIZONTAL DATUM:
NAD 83/98 WASHINGTON STATE PLANE NORTH ZONE

BASIS OF COORDINATES: THIS SURVEY HELD CITY OF BELLINGHAM MONUMENT #588 FOR COORDINATES AND C.O.B. MON. #5584 FOR BEARING
(AS SHOWN)

SURVEY CONTROL POINTS AS SHOWN HEREON.

BASIS OF BEARINGS: THIS SURVEY HELD CITY OF BELLINGHAM MONUMENT #588 FOR COORDINATES AND C.O.B. MON. #5584 FOR BEARING (AS SHOWN)

VERTICAL DATUM:
NAVD88 (CITY OF BELLINGHAM)

BASIS OF ELEVATIONS: ELEVATIONS ARE NAVD88 VALUES.

PRIMARY BENCH MARK: C.O.B. #5584 (PSE #611). ELEV=16.11'
TEMPORARY BENCH MARK: PSE CONTROL ON-SITE, AS SHOWN UNLESS NOTED OTHERWISE, THIS SURVEY RELIED IN PART ON BOUNDARY RESOLUTIONS DEPICTED AND/OR NOTED ON THAT CERTAIN UNRECORDED SURVEY PREPARED BY PACIFIC SURVEYING AND ENGINEERING DATED 6/14/2016 AND TITLED "BELLINGHAM SHIPPING TERMINAL WAREHOUSE 1 AND 2 VICINITY" AS WELL AS THAT CERTAIN UNRECORDED SURVEY PREPARED BY WILSON ENGINEERING DATED 10-26-23 AND TITLED "210368-B CHLOR-ALKALI RAU CLEANUP, GP WEST SITE".

CONDUCTIBLE UNDERGROUND UTILITY LOCATED SERVICES WERE PERFORMED AND PAINTED BY APPLIED PROFESSIONAL SERVICES AND SURVEYED BY PSE FIELD CREWS IN DECEMBER OF 2025 AND APRIL 2026. UTILITIES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THIS SURVEY THAT WERE UNDETECTABLE. ADDITIONAL UTILITY VERIFICATION MAY BE WARRANTED IN AREAS CONSIDERED FOR CONSTRUCTION. AS-BUILTS AND RECORD DRAWINGS WERE USED TO SUPPLEMENT UTILITY INFORMATION WHERE AVAILABLE.

THE CONTRACTOR SHALL PROTECT SURVEY CONTROL MONUMENTS AND SHALL PROVIDE ACCESS AND ACCOMMODATION TO THE ENGINEER FOR SURVEYING AND VERIFICATION AS REQUIRED DURING THE WORK

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

JOSEPH ROBERT NEUMAN — STATE OF WASHINGTON — 24025852 — REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: GENERAL NOTES

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

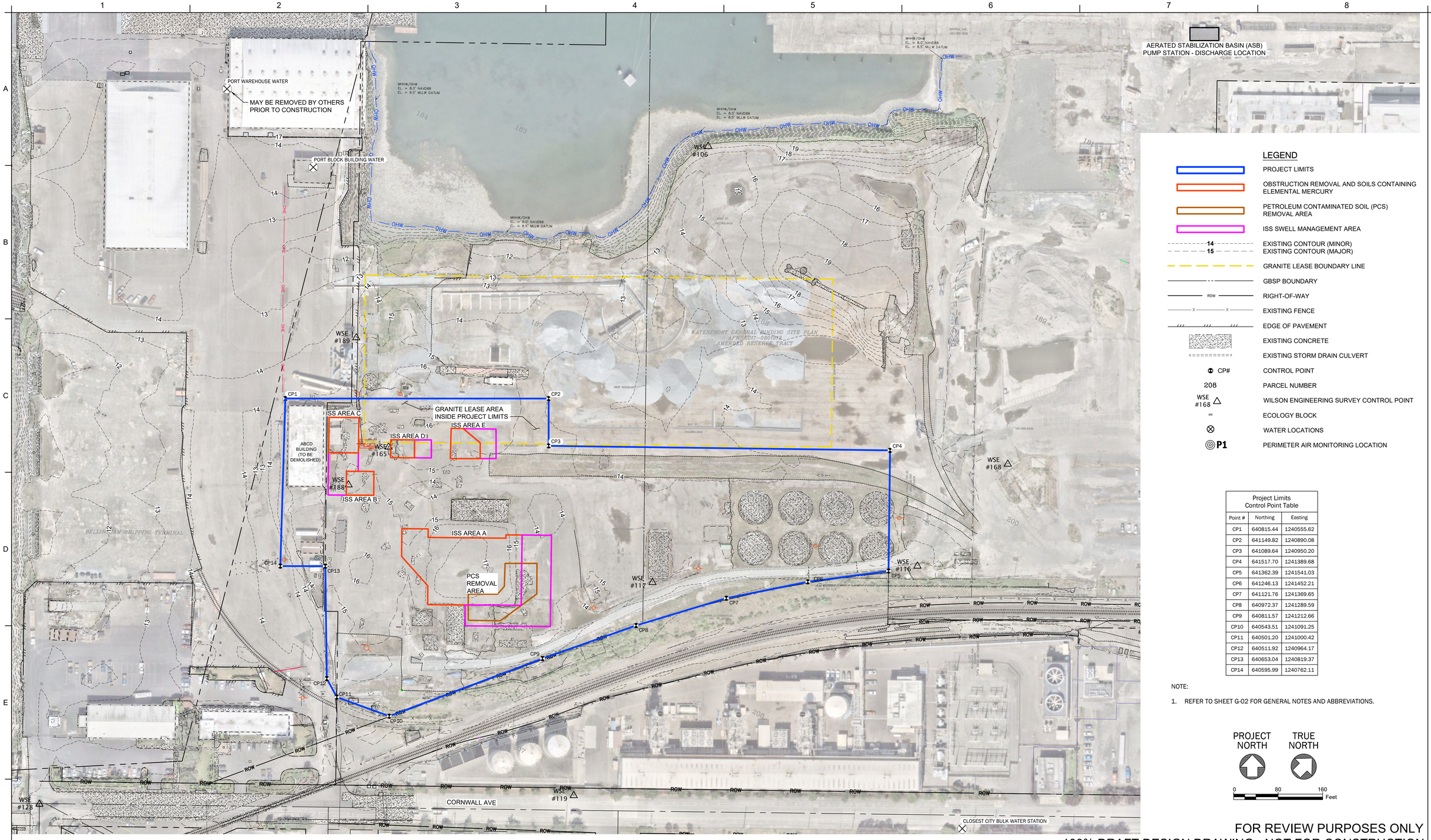
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: COVER&NOTES
DRAWING NO.: G-02
SHT 2 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT C\COVER&NOTES.DWG Last Edited by: nathan.althauser on 9/1/26



LEGEND

- PROJECT LIMITS
- OBSTRUCTION REMOVAL AND SOILS CONTAINING ELEMENTAL MERCURY
- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- ISS SWELL MANAGEMENT AREA
- 14 EXISTING CONTOUR (MINOR)
- 15 EXISTING CONTOUR (MAJOR)
- GRANITE LEASE BOUNDARY LINE
- GBSP BOUNDARY
- ROW RIGHT-OF-WAY
- X X EXISTING FENCE
- EDGE OF PAVEMENT
- EXISTING CONCRETE
- EXISTING STORM DRAIN CULVERT
- CP# CONTROL POINT
- 208 PARCEL NUMBER
- WSE #168 WILSON ENGINEERING SURVEY CONTROL POINT
- ECOLOGY BLOCK
- WATER LOCATIONS
- P1 PERIMETER AIR MONITORING LOCATION

Project Limits
Control Point Table

Point #	Northing	Easting
CP1	640815.44	1240555.62
CP2	641149.82	1240890.08
CP3	641089.64	1240950.20
CP4	641517.70	1241389.68
CP5	641362.39	1241541.03
CP6	641246.13	1241452.21
CP7	641121.76	1241369.65
CP8	640972.37	1241289.59
CP9	640811.57	1241212.66
CP10	640543.51	1241091.25
CP11	640501.20	1241000.42
CP12	640511.92	1240964.17
CP13	640653.04	1240819.37
CP14	640595.99	1240762.11

NOTE:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.

PROJECT NORTH / TRUE NORTH

0 80 160 Feet

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

JOSEPH ROBERT RIDDIEN — STATE OF WASHINGTON — 24015853 — REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: SITE VICINITY MAP

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

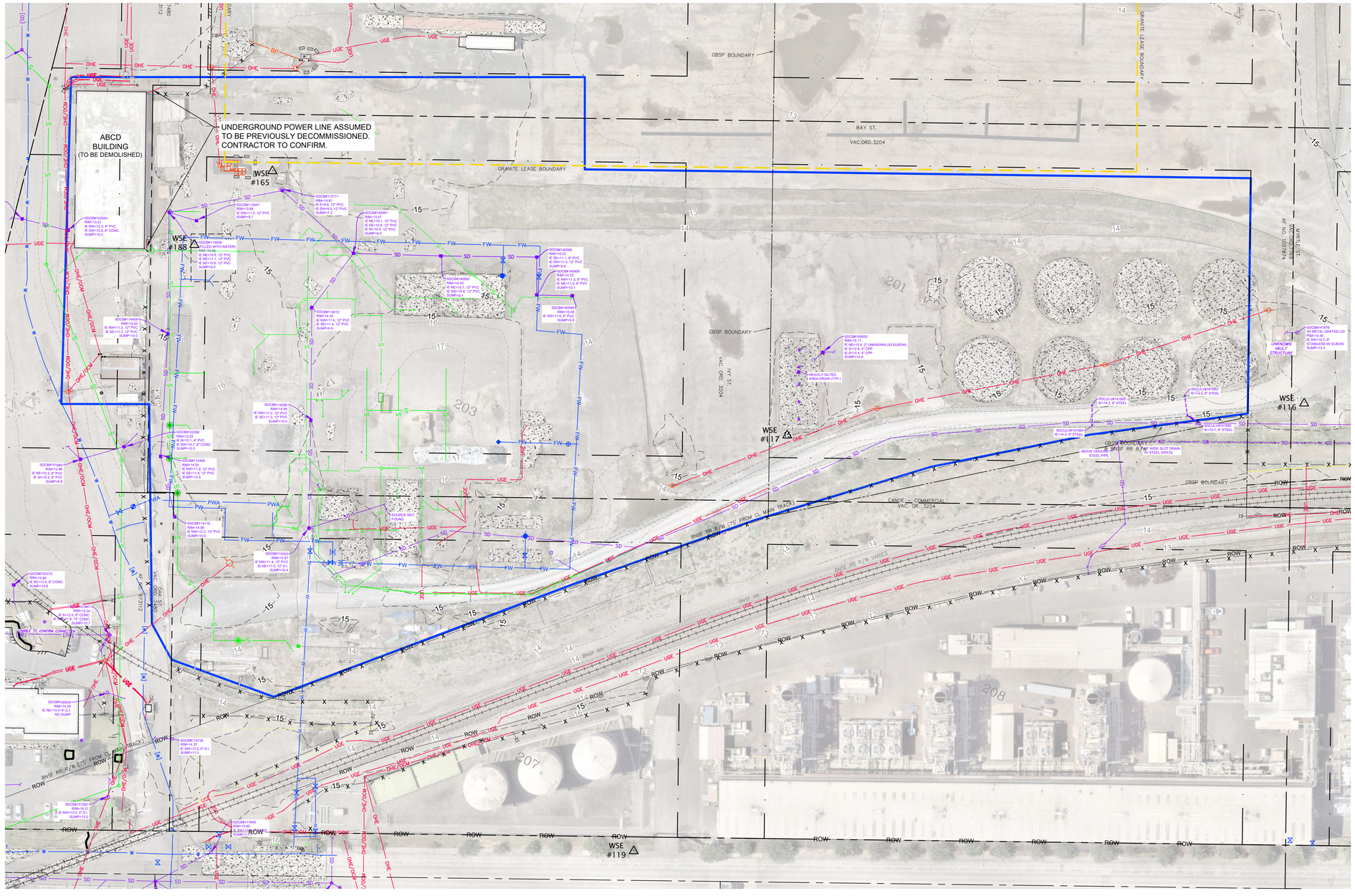
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: SITE VIC
DRAWING NO.: G-03
SHT 3 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT CISITE VIC.DWG Last Edited by: nathan.althauser on 9/1/26



LEGEND

- PROJECT LIMITS
- EXISTING CONTOUR (MINOR) / EXISTING CONTOUR (MAJOR)
- GBSP BOUNDARY
- EXISTING RIGHT-OF-WAY LINE
- EXISTING CONCRETE
- EXISTING SEWER LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- EXISTING FIRE WATER LINE
- EXISTING POTABLE WATER LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING UNDERGROUND POWER LINE
- EXISTING OVERHEAD COMMUNICATION LINE
- EXISTING BURIED POWER LINE
- EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING CATCH BASIN
- EXISTING STORM DRAIN CLEANOUT
- EXISTING STORM DRAIN CULVERT
- EXISTING SEWER MANHOLE
- EXISTING POWER POLE
- EXISTING SWITCHBOARD HLP
- EXISTING PSE PADMOUNT TRANSFORMER
- EXISTING UTILITY MANHOLE
- EXISTING ELECTRICAL MANHOLE
- EXISTING COMMUNICATIONS MANHOLE
- GRANITE LEASE BOUNDARY LINE
- EXISTING FENCE
- VACATED RIGHT OF WAY
- LOT LINE
- EXISTING CONCRETE PAD
- WSE #168 — SURVEY CONTROL POINT
- MONITORING WELL

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. SUBSURFACE FEATURE LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS.

ON-SITE SURVEY CONTROL TABLE

POINT #	NORTHING	EASTING	ELEV.	DESCRIPTION
116	641406.28	1241570.58	15.80	WSE CONTROL SPIKE NAVD88
117	641048.81	1241254.74	14.95	WSE CONTROL SPIKE NAVD88
119	640678.05	1241425.59	17.19	WSE TRAV PT REBAR/CAP
165	640885.72	1240747.40	14.60	WSE CONTROL SPIKE NAVD88
188	640786.81	1240744.56	14.59	WSE CONTROL SPIKE NAVD88

PROJECT NORTH / TRUE NORTH

0 50 100 Feet

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100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

JOSEPH ROBERT ADAMAK — STATE OF WASHINGTON — 24025852 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: EXISTING CONDITIONS PLAN (1 OF 2)

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

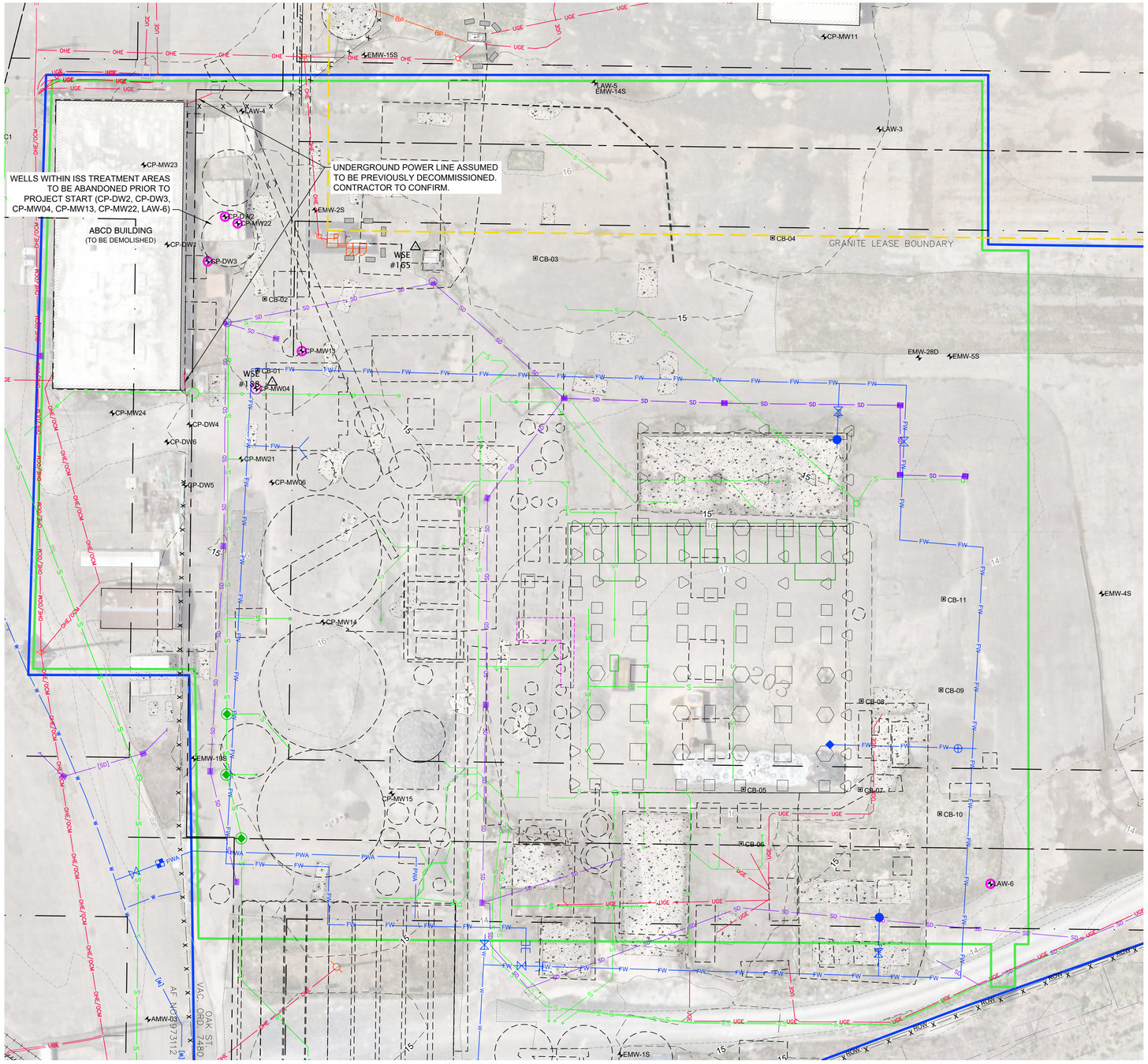
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: EXST COND PLAN
DRAWING NO.: C-01
SHT 4 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT CIEXST COND PLAN.DWG Last Edited by: nathan.althauser on 8/31/26



LEGEND

- PROJECT LIMITS
- PROJECT DISTURBANCE LIMITS
- EXISTING FILL UNIT MONITORING WELL
- EXISTING MONITORING WELL (TO BE ABANDONED BY OTHERS)
- EXISTING CONTOUR (MINOR)
- EXISTING CONTOUR (MAJOR)
- GBSP BOUNDARY
- EXISTING CONCRETE
- EXISTING SEWER LINE
- EXISTING STORM LINE
- EXISTING WATER LINE
- EXISTING OVERHEAD POWER
- EXISTING UNDERGROUND POWER
- EXISTING POWER & COMMUNICATION LINE
- EXISTING CATCH BASIN
- EXISTING SEWER MANHOLE
- EXISTING POWER POLE
- EXISTING SWITCHBOARD HLP
- EXISTING PSE PADMOUNT TRANSFORMER
- EXISTING WATER METER
- EXISTING GATE VALVE
- EXISTING FIRE HYDRANT
- EXISTING POST INDICATOR VALVE
- EXISTING SPRINKLER SYSTEM CONNECTION POINT
- EXISTING FENCE
- GRANITE LEASE BOUNDARY LINE
- VACATED RIGHT OF WAY
- LOT LINE
- EXISTING CONCRETE PAD
- WSE #168 — SURVEY CONTROL POINT

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. TANKS DRAINED AND DEMOLISHED ABOVE SURFACE. HISTORIC CONTENTS NOTED IN GRAY TEXT.
3. SUBSURFACE FEATURE LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS.

ON-SITE SURVEY CONTROL TABLE

POINT #	NORTHING	EASTING	ELEV.	DESCRIPTION
116	641406.28	1241570.58	15.80	WSE CONTROL SPIKE NAVD88
117	641048.81	1241254.74	14.95	WSE CONTROL SPIKE NAVD88
119	640678.05	1241425.59	17.19	WSE TRAV PT REBAR/CAP
165	640885.72	1240747.40	14.60	WSE CONTROL SPIKE NAVD88
188	640786.81	1240744.56	14.59	WSE CONTROL SPIKE NAVD88

PROJECT NORTH

TRUE NORTH

0 30 60 Feet

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REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

JOSEPH ROBERT ROGHAIR — STATE OF WASHINGTON — 24053853 — REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: EXISTING CONDITIONS PLAN (2 OF 2)

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

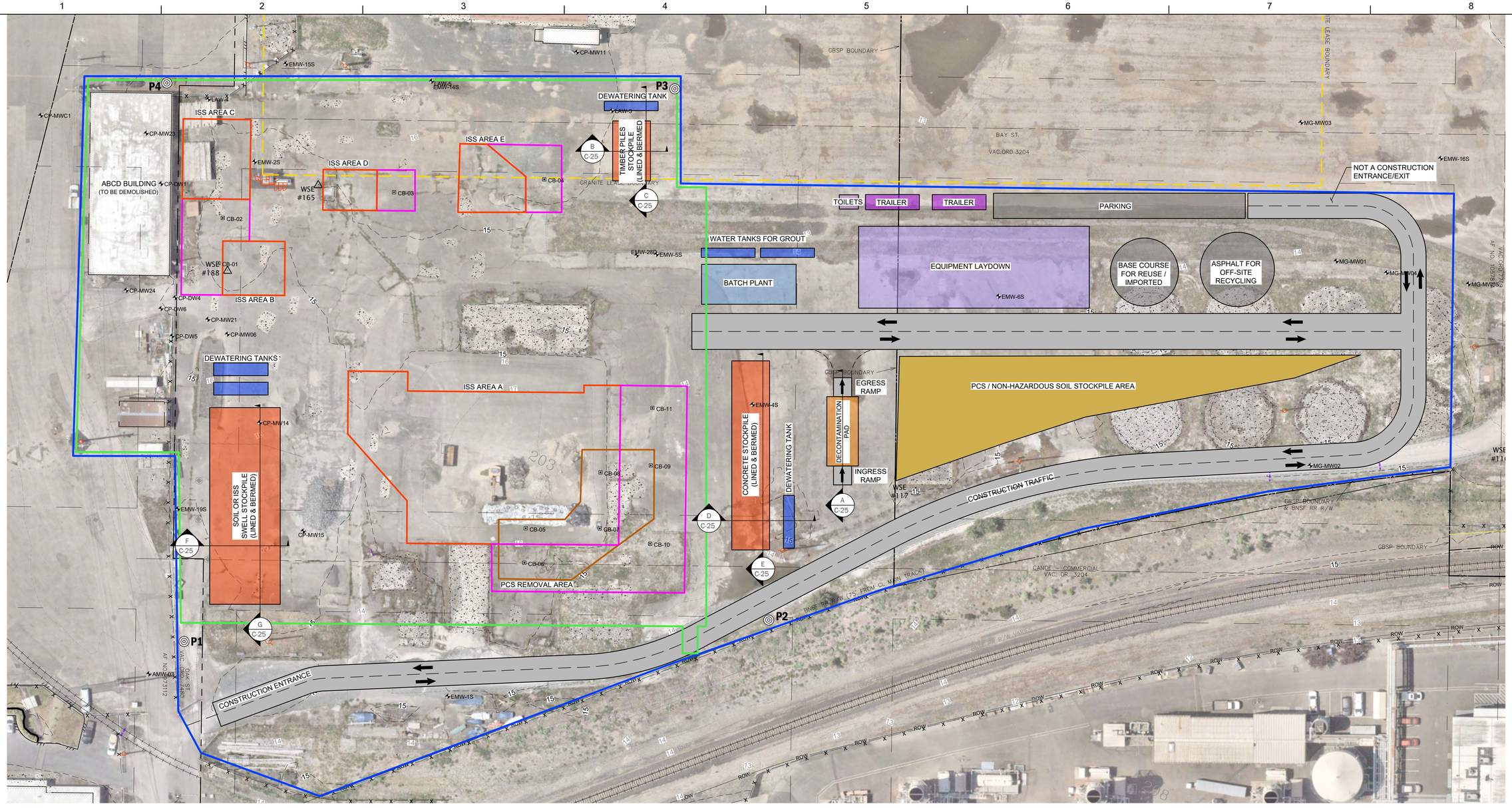
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: EXST COND PLAN
DRAWING NO.: C-02
SHT 5 OF 37

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LEGEND

- PROJECT LIMITS
- PROJECT DISTURBANCE LIMITS
- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- ISS AREA
- BATCH PLANT AREA
- ISS SWELL MANAGEMENT AREA
- STOCKPILE AREA
- NON-HAZARDOUS STOCKPILE AREA
- PROJECT TRAILERS
- WATER MANAGEMENT TANKS
- EXISTING CONTOUR (MINOR)
- EXISTING CONTOUR (MAJOR)
- GBSP BOUNDARY
- RIGHT-OF-WAY
- EXISTING FENCE
- GRANITE LEASE BOUNDARY LINE
- SURVEY CONTROL POINT
- P1 PERIMETER AIR MONITORING LOCATION
- EXISTING FILL UNIT MONITORING WELL
- SOIL BORING

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. THE SITE LAYOUT SHOWN ON THIS SHEET IS ONE CONCEPTUAL SITE LAYOUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL SITE LAYOUT.

PROJECT NORTH / TRUE NORTH

0 40 80 Feet

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

JOSEPH ROBERT RENEWAL — STATE OF WASHINGTON — 24025852 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: SITE PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

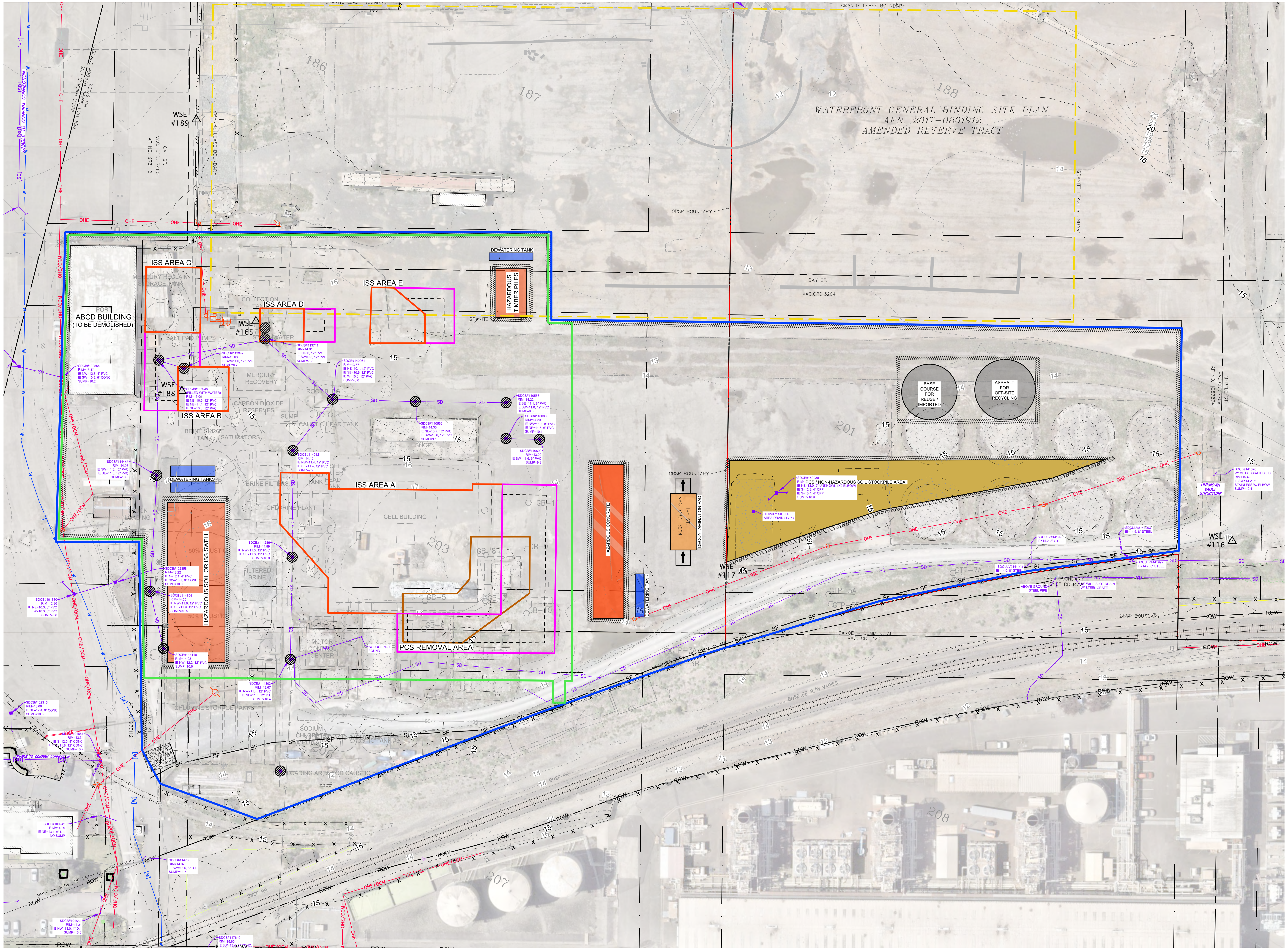
PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: SITE PLAN
DRAWING NO.: C-03
SHT 6 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT CIS\SITE PLAN.DWG Last Edited by: nathan.althauser on 9/1/26

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT C\TESC PLAN.DWG Last Edited by: nathan.althauser on 9/1/26



NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. NO CONSTRUCTION-RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATER, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE THAT EXCEED STATE OR FEDERAL STANDARDS.
3. A TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) LEAD IS REQUIRED FOR THIS PROJECT. THE NAMED PERSON OR FIRM SHALL BE ON-SITE OR ON-CALL AT ALL TIMES.
4. THE IMPLEMENTATION OF THIS TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION AND RESTORATION IS COMPLETED AND APPROVED.
5. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT.
6. THE TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL DEMOLITION, EXCAVATION, AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SOIL/SEDIMENT, ISS SWELL MATERIAL AND CONTACT WATER DO NOT LEAVE THE PROJECT LIMITS.
7. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SOIL/SEDIMENT-LADEN WATER DO NOT LEAVE THE PROJECT LIMITS.
8. THE TESC MEASURES SHALL BE SUFFICIENT TO MANAGE STORMWATER RUNOFF AND CONTACT WATER GENERATED WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND TO PREVENT DIRECT DISCHARGE OF UNTREATED STORMWATER, CONTACT WATER, SEDIMENT, OR OTHER POLLUTANTS TO WATERS OF THE STATE.
9. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
10. ANY TRACK-OUT AND ACCUMULATION OF SOIL/SEDIMENT FROM THE PROJECT LIMITS ONTO ROADS OUTSIDE THE PROJECT LIMITS SHALL BE IMMEDIATELY AND COMPLETELY REMOVED AT CONTRACTOR'S EXPENSE.
11. STOCKPILES OF MATERIAL IMPACTED BY ELEMENTAL MERCURY MUST BE STABILIZED AND THE STOCKPILE AREA MUST BE LINED AND SURROUNDED WITH BERMS TO CONTAIN ANY STORMWATER AND/OR SOIL/SEDIMENT RUNOFF. ANY WATER ACCUMULATING ON STOCKPILE AREAS SHALL BE COLLECTED, TREATED, AND DISCHARGED IN ACCORDANCE WITH PROJECT TECHNICAL SPECIFICATION SECTION 2-04.
12. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES AND OTHER ACTIVITIES THAT RESULTS IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES SUCH AS DRIP PANS. REPORT ALL SPILLS TO THE OWNER IMMEDIATELY.
13. BEST MANAGEMENT PRACTICES APPLICABLE TO THE PROJECT LIMITS ARE FROM THE MOST RECENT VERSION OF THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON AND CAN BE FOUND IN THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

LEGEND

- SF —— SF: SILT FENCE (2 / C-05)
- COMPOST SOCK (5 / C-05)
- CATCH BASIN WITH INLET PROTECTION (3 / C-05)
- DISCHARGE PIPE TO ASB
- EXISTING CATCH BASIN
- EXISTING STORM DRAIN CULVERT
- SD —— SD: EXISTING STORM DRAIN PIPE
- OHE —— OHE: EXISTING OVERHEAD POWER LINE
- STABILIZED CONSTRUCTION ENTRANCE (1 / C-05)
- PROJECT LIMITS
- GRANITE LEASE BOUNDARY LINE
- EXTENT OF ISS SWELL MANAGEMENT AREA
- BASE OF ADDITIONAL EXCAVATION AREA
- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- ISS AREA

PROJECT NORTH TRUE NORTH

0 50 100 Feet

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

MARK WALTER · STATE OF WASHINGTON · 26018267 · REGISTERED PROFESSIONAL ENGINEER · DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: TESC PLAN

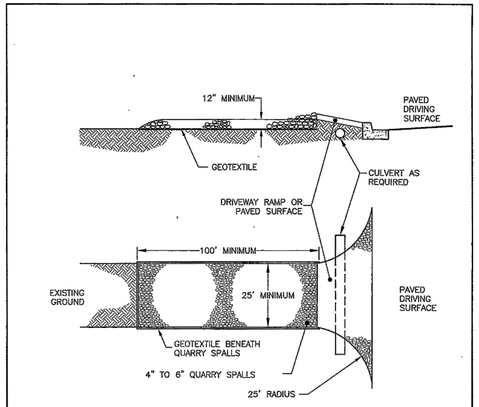
PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: TESC PLAN
DRAWING NO.: C-04
SHT 7 OF 37



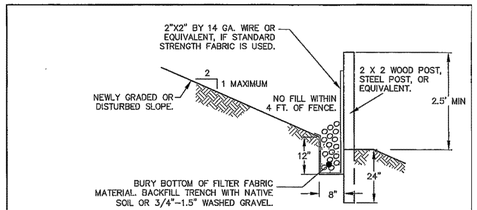
PLAN
NTS

NOTES:

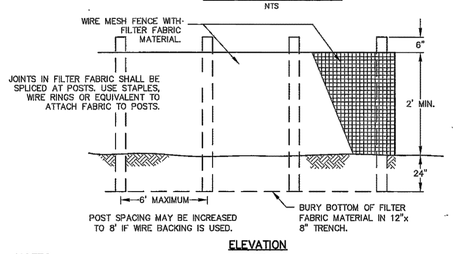
1. PAD SHALL BE REMOVED AND REPLACED WHEN SOIL IS EVIDENT ON THE SURFACE OF THE PAD OR AS DIRECTED BY THE CITY.
2. PAD SHALL BE INSTALLED IN PLANTING STRIP AS APPROPRIATE.
3. PAD THICKNESS SHALL BE INCREASED IF SOIL CONDITIONS DICTATE OR PER THE DIRECTION OF THE CITY.
4. MINIMUM DIMENSIONS MAY BE MODIFIED AS REQUIRED BY SITE CONDITIONS UPON APPROVAL OF THE CITY.

APPROVED		CITY OF BELLINGHAM	DRAWING
City Engineer	11/29/04 Date	TEMPORARY CONSTRUCTION EXIT-PLAT/COMMERCIAL	EC-600

TEMPORARY CONSTRUCTION ENTRANCE (1 / C-04)
SCALE: NTS



TYPICAL CROSS SECTION
NTS



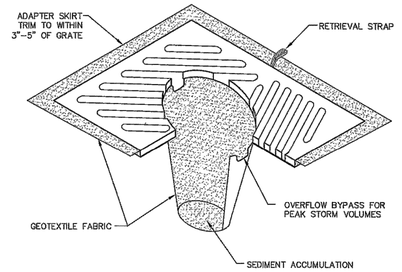
ELEVATION
NTS

NOTES:

1. FENCE SHALL NOT BE INSTALLED ON SLOPES STEEPER THAN 2:1.
2. JOINTS IN FILTER FABRIC SHALL BE OVERLAPPED 6 INCHES AT POST.
3. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO WIRE FENCE.
4. REMOVE SEDIMENT WHEN IT REACHES 1/3 FENCE HEIGHT.

APPROVED		CITY OF BELLINGHAM	DRAWING
City Engineer	11/29/04 Date	REINFORCED SILT FENCE	EC-615

REINFORCED SILT FENCE (2 / C-04)
SCALE: NTS

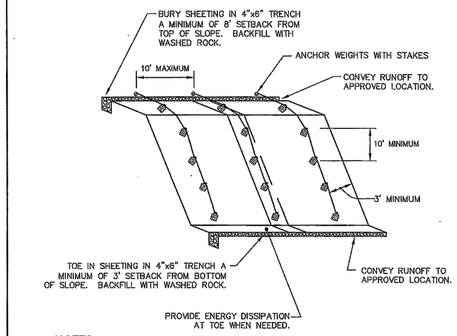


NOTES:

1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

APPROVED		CITY OF BELLINGHAM	DRAWING
City Engineer	11/29/04 Date	CATCH BASIN INSERT	EC-620

CATCH BASIN INSERT (3 / C-04)
SCALE: NTS

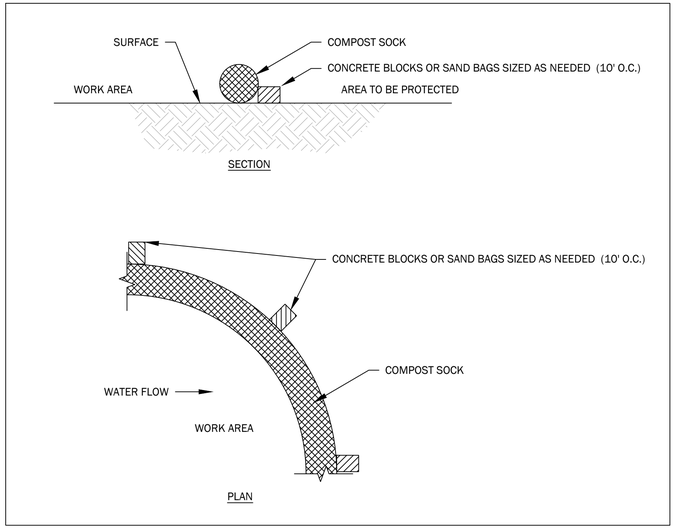


NOTES:

1. TIRES, SANDBAGS, OR EQUIVALENT MAY BE USED TO WEIGH DOWN PLASTIC SHEETING.
2. SEAMS BETWEEN SHEETS MUST OVERLAP A MINIMUM OF 12" AND BE WEIGHTED OR TAPED.
3. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MIL.
4. DUE TO RAPID RUNOFF CAUSED BY PLASTIC SHEETING, THIS METHOD SHALL NOT BE USED UPSLOPE OF AREAS THAT MIGHT BE ADVERSELY IMPACTED BY CONCENTRATED RUNOFF.
5. CONSTRUCT BERM OR SWALE AT TOP OF SLOPE AS DIRECTED BY THE CLEARING AND GRADING INSPECTOR.
6. CONSTRUCT DITCH AT BASE OF SLOPE AS REQUIRED BY CITY, AND DISCHARGE TO APPROVED LOCATION.

APPROVED		CITY OF BELLINGHAM	DRAWING
City Engineer	11/29/04 Date	PLASTIC COVERING FOR SLOPES AND STOCKPILES	EC-650

PLASTIC COVERING FOR STOCK PILE (4 / C-04)
SCALE: NTS



COMPOST SOCK DETAIL (5 / C-04)
SCALE: NTS

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

MARK WALLER — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: TESC DETAILS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

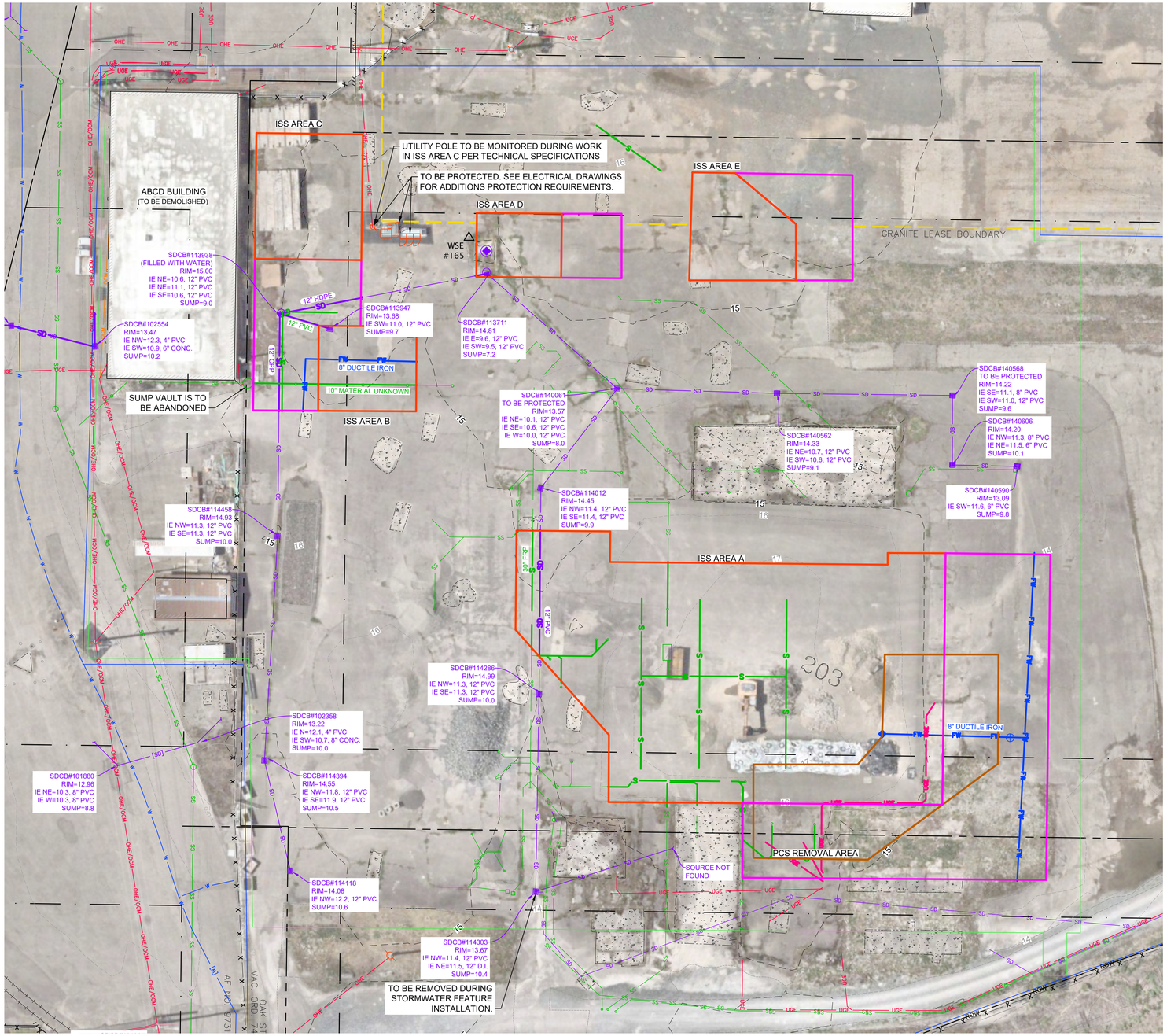
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: TESC DETAILS
DRAWING NO.: C-05
SHT 8 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT CYTESC DETAILS.DWG Last Edited by: nathan.althauser on 9/1/26



NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND LEGEND.
2. ALL PAVEMENTS AND OBSTRUCTIONS WITHIN ISS AND ISS SWELL MANAGEMENT AREA LIMITS SHALL BE REMOVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL STRUCTURES AND PAVEMENTS OUTSIDE OF ISS AND ISS SWELL MANAGEMENT AREA LIMITS NOT INDICATED AS TO BE DEMOLISHED, REMOVED, OR ABANDONED SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE OWNER. DAMAGE TO PROTECTED STRUCTURES, PAVEMENTS, AND UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. BOLDED UTILITIES WITHIN ISS TREATMENT AND ISS SWELL MANAGEMENT AREAS SHALL BE ABANDONED AND REMOVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
4. THE DIAMETER AND MATERIAL OF UTILITIES IN THE ISS AND ISS SWELL MANAGEMENT AREAS IS PROVIDED, IF AVAILABLE.
5. VERTICAL DATUM OF CATCH BASIN RIMS ARE IN FT NAVD88.
6. UNLESS OTHERWISE NOTED, CUT AND CAP OR PLUG UTILITY LINES AT PERIMETER OF ISS OR EXCAVATION AREAS SHOWN IN ACCORDANCE WITH PROJECT TECHNICAL SPECIFICATIONS.
7. SUBSURFACE FEATURE LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL SUBSURFACE FEATURES MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
8. EXISTING POWER POLE AND ELECTRICAL INFRASTRUCTURE BETWEEN ISS AREA C AND D SHALL BE PROTECTED IN PLACE USING EITHER STAGED CONSTRUCTION OF ISS, TEMPORARY SHORING, OR OTHER MEANS AND METHODS IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL PROTECTION REQUIREMENTS.

LEGEND

- PROJECT LIMITS
- PROJECT DISTURBANCE LIMITS
- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- ISS AREA
- EXTENT OF ISS SWELL MANAGEMENT AREA
- EXISTING CONTOUR (MINOR)
- EXISTING CONTOUR (MAJOR)
- GBSP BOUNDARY
- EXISTING SEWER LINE
- EXISTING STORM LINE
- EXISTING FIRE WATER LINE
- EXISTING UNDERGROUND POWER LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING POWER & COMMUNICATION LINE
- EXISTING POWER POLE
- EXISTING SWITCHBOARD HLP
- EXISTING PSE PADMOUNT TRANSFORMER
- EXISTING CATCH BASIN
- EXISTING SEWER STRUCTURE
- EXISTING WATER METER
- EXISTING GATE VALVE
- EXISTING FIRE HYDRANT
- EXISTING POST INDICATOR VALVE
- EXISTING FENCE
- GRANITE LEASE BOUNDARY LINE
- SURVEY CONTROL POINT

0 30 60 Feet

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

MARK WALTER JOHNSON — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: UTILITY DEACTIVATION AND DISCONNECT PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

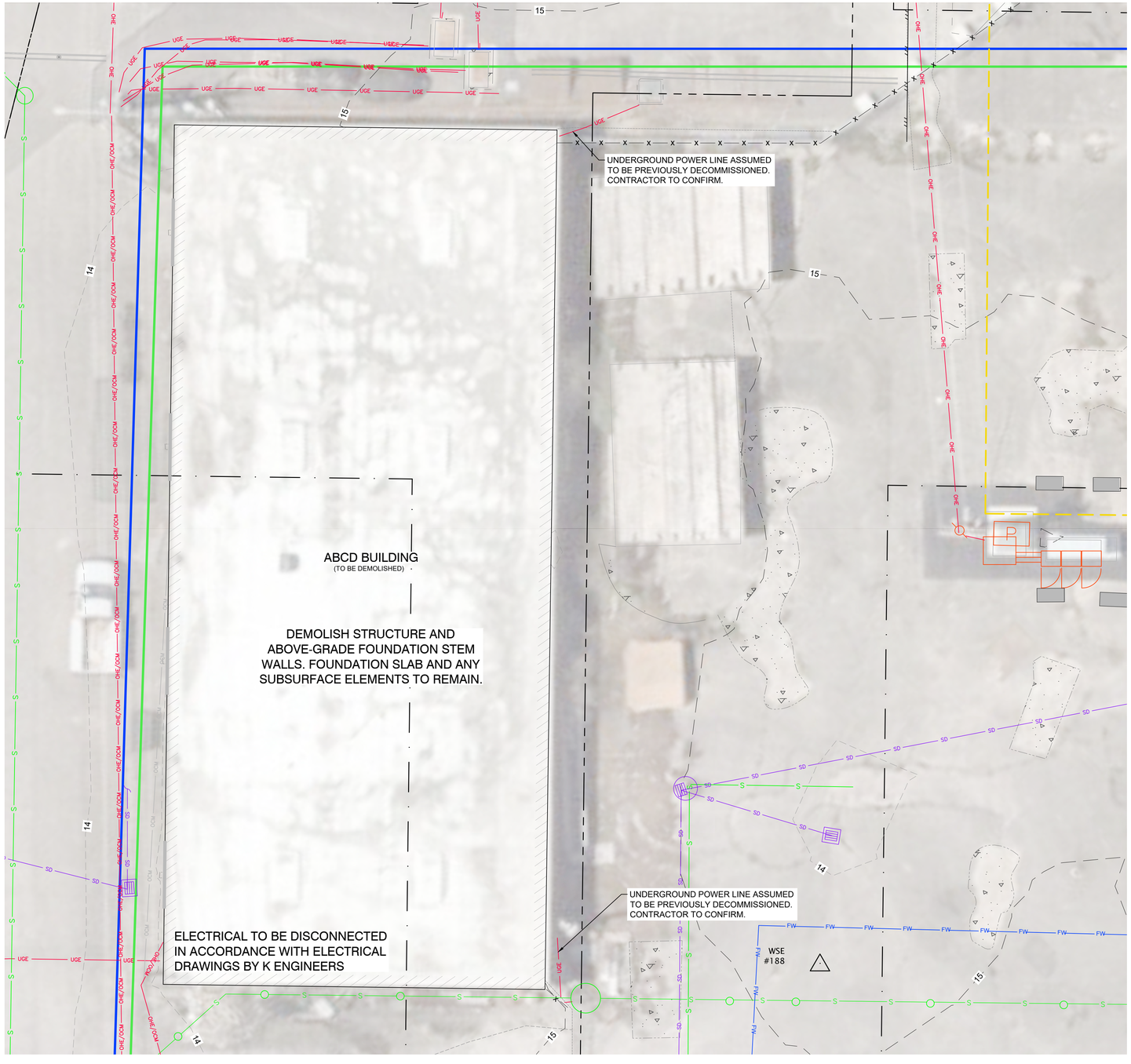
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: UTIL DEACTIVATION PLAN
DRAWING NO.: C-06
SHT 9 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT CIUTIL DEACTIVATION PLAN.DWG Last Edited by: nathan.althauser on 9/1/26



NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND LEGEND.
2. ALL ABOVE-GRADE STRUCTURAL ELEMENTS, APPURTENANCES, AND ASSOCIATED MATERIALS OF THE ABCD BUILDING INCLUDING CONCRETE STEM WALLS SHALL BE DEMOLISHED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
3. ELECTRICAL UTILITIES TO BE DISCONNECTED IN ACCORDANCE WITH K ENGINEERS DRAWINGS.
4. UNLESS OTHERWISE NOTED, ALL UTILITIES ADJACENT TO ABCD BUILDING SHALL BE PROTECTED IN PLACE.
5. CONTRACTOR TO REFERENCE HAZARDOUS BUILDING MATERIALS SURVEY COMPLETED BY PACRIM FOR BUILDING DEMOLITION.

LEGEND

- PROJECT LIMITS
- PROJECT DISTURBANCE LIMITS
- EXISTING CONTOUR (MINOR)
- EXISTING CONTOUR (MAJOR)
- GBSP BOUNDARY
- EXISTING SEWER LINE
- EXISTING STORM LINE
- EXISTING FIRE WATER LINE
- EXISTING UNDERGROUND POWER LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING OVERHEAD COMMUNICATION LINE
- EXISTING CATCH BASIN
- EXISTING SEWER STRUCTURE
- EXISTING POWER POLE
- EXISTING PSE PADMOUNT TRANSFORMER
- EXISTING SWITCHBOARD HLP
- EXISTING FENCE
- GRANITE LEASE BOUNDARY
- RIGHT-OF-WAY LINE
- PROPERTY BOUNDARY
- SURVEY CONTROL POINT

0 30 60 Feet

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

JOSEPH ROBERT RIDDELL — STATE OF WASHINGTON — 24015833 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	HNH
APPROVED BY:	-

TITLE: BUILDING ABCD DEMOLITION PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

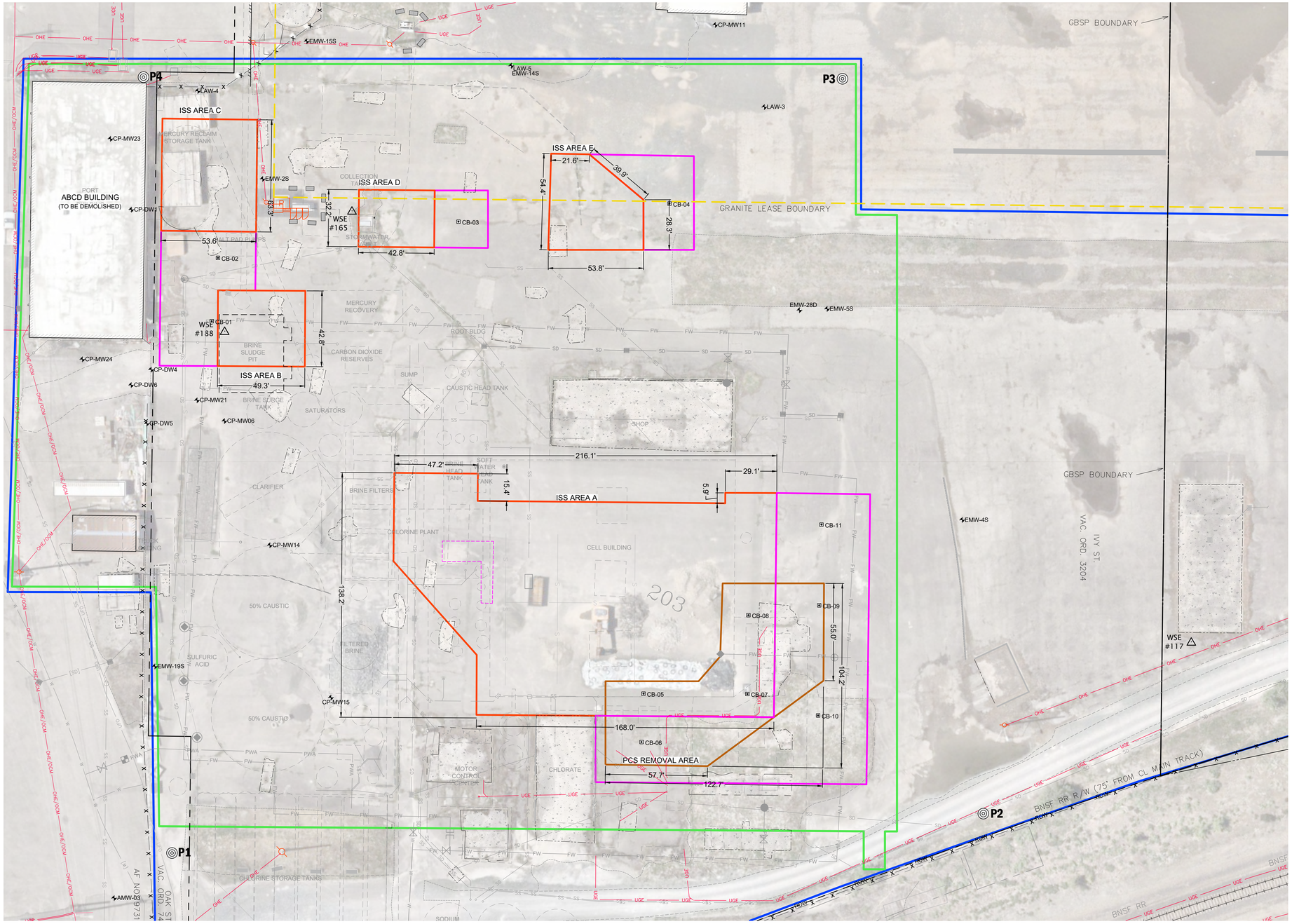
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: BUILDING ABCD DEMOLITION PLAN
DRAWING NO.: C-07
SHT 10 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT C\BUILDING ABCD DEMOLITION PLAN.DWG Last Edited by: nathan.althauser on 9/1/26



NOTES:

.. REFER TO SHEET G-02 FOR GENERAL NOTES AND LEGEND.

2. ALL PAVEMENTS AND OBSTRUCTIONS WITHIN ISS AND ISS SWELL MANAGEMENT AREA LIMITS SHALL BE REMOVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL STRUCTURES AND PAVEMENTS OUTSIDE OF ISS AND ADDITIONAL ISS SWELL MANAGEMENT AREA LIMITS NOT INDICATED AS TO BE DEMOLISHED, REMOVED, OR ABANDONED SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE OWNER. DAMAGE TO PROTECTED STRUCTURES, PAVEMENTS, AND UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

LEGEND

- PROJECT LIMITS
- PROJECT DISTURBANCE LIMITS
- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- ISS AREA
- ISS SWELL MANAGEMENT AREA
- PILOT TEST AREA
- EXISTING CONCRETE FOUNDATIONS
- EXISTING CONTOUR (MINOR) / EXISTING CONTOUR (MAJOR) (15)
- PROPERTY BOUNDARY
- EXISTING FENCE
- GRANITE LEASE BOUNDARY LINE
- EXISTING CONCRETE
- SURVEY CONTROL POINT
- PERIMETER AIR MONITORING LOCATION
- MONITORING WELL (CONTRACTOR TO PROTECT IN-PLACE)
- SOIL BORING
- EXISTING UNDERGROUND POWER LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING POWER & COMMUNICATION LINE
- EXISTING POWER POLE
- EXISTING SWITCHBOARD HLP
- EXISTING PSE PADMOUNT TRANSFORMER

0 30 60 Feet

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

JOSEPH ROBERT RADTKE, STATE OF WASHINGTON, 24013853, REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: CLEANUP AREAS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

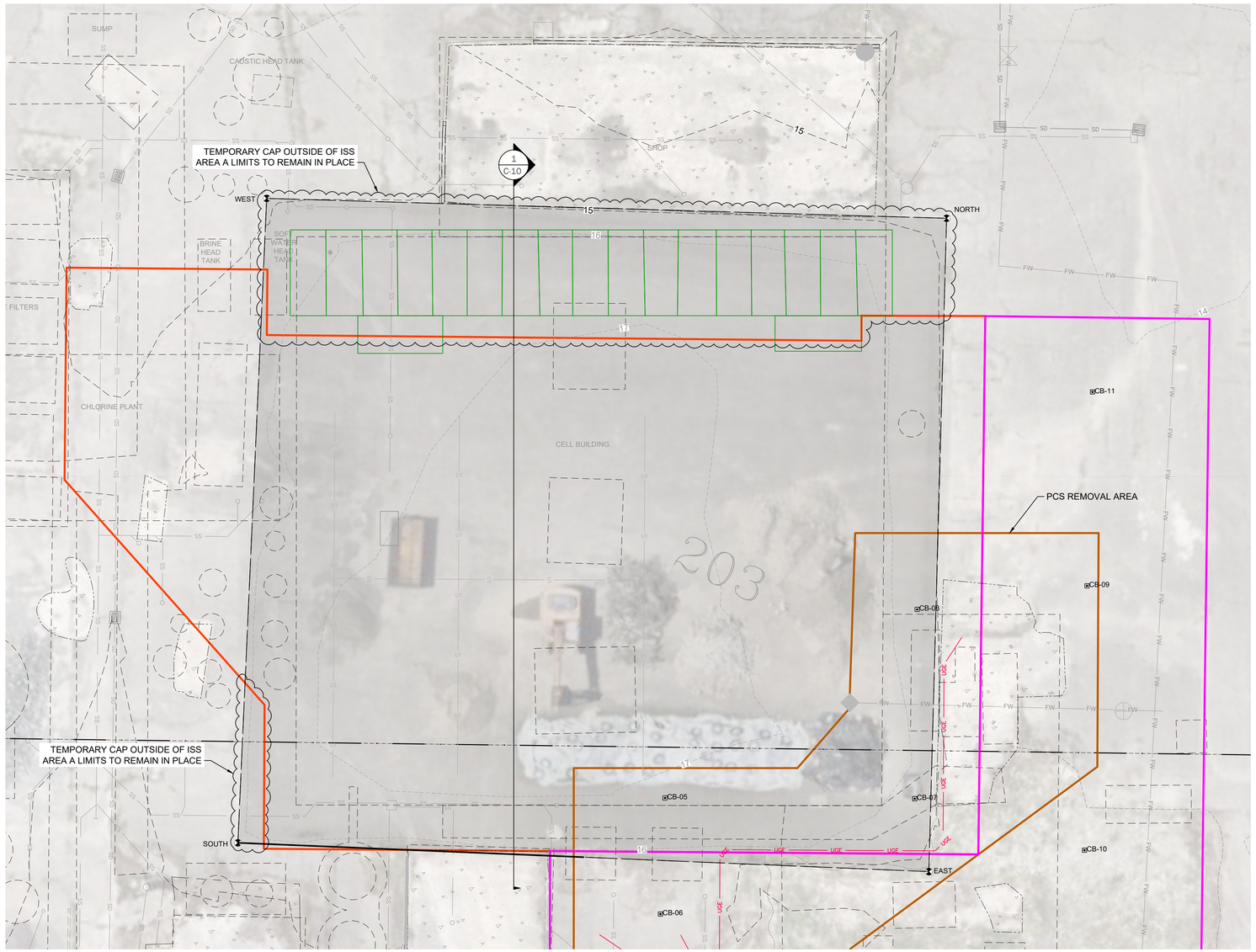
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: CLEANUP AREAS
DRAWING NO.: C-08
SHT 11 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT CI\CLEANUP AREAS.DWG Last Edited by: nathan.althauser on 9/1/26



NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. ALL PAVEMENTS AND OBSTRUCTIONS WITHIN ISS AND ISS SWELL MANAGEMENT AREA LIMITS SHALL BE REMOVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL STRUCTURES AND PAVEMENTS OUTSIDE OF ISS AND ISS SWELL MANAGEMENT AREA LIMITS NOT INDICATED AS TO BE DEMOLISHED, REMOVED, OR ABANDONED SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE OWNER. DAMAGE TO PROTECTED STRUCTURES, PAVEMENTS, AND UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL BEGIN OBSTRUCTION REMOVAL WITHIN ISS AREA A WITH THE REMOVAL OF THE TEMPORARY CAP AND SURFACE PAVEMENT. TEMPORARY CAP AND SURFACE PAVEMENT REMOVAL WILL OCCUR JUST PRIOR TO STARTING CLEANUP FOR THAT AREA.
4. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
5. OBSTRUCTIONS UNDERNEATH THE TEMPORARY CAP ARE NOT SHOWN ON THIS SHEET. REFER TO SHEET C-11 FOR SHALLOW FOUNDATIONS REMOVAL PLAN, C-13 AND C-14 FOR PILE CAP REMOVAL PLAN AND DETAILS, AND C-15 FOR TIMBER PILE REMOVAL PLAN.

LEGEND

- EXISTING CONCRETE FOUNDATIONS
- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- ISS AREA
- ISS SWELL MANAGEMENT AREA
- STEEL PLATE BENEATH PAVEMENT
- EXISTING TEMPORARY CAP
- EXISTING PAVEMENT OUTSIDE TEMPORARY CAP

CORNER COORDINATES		
NAME	NORTHING	EASTING
WEST	640842.79	1240890.69
NORTH	640952.54	1241007.07
EAST	640840.95	1241112.77
SOUTH	640730.83	1240993.07

PROJECT NORTH
TRUE NORTH

0 15 30 Feet

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

MARK WALTER — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: FORMER CELL BUILDING - TEMPORARY CAP & SURFACE PAVEMENT REMOVAL

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

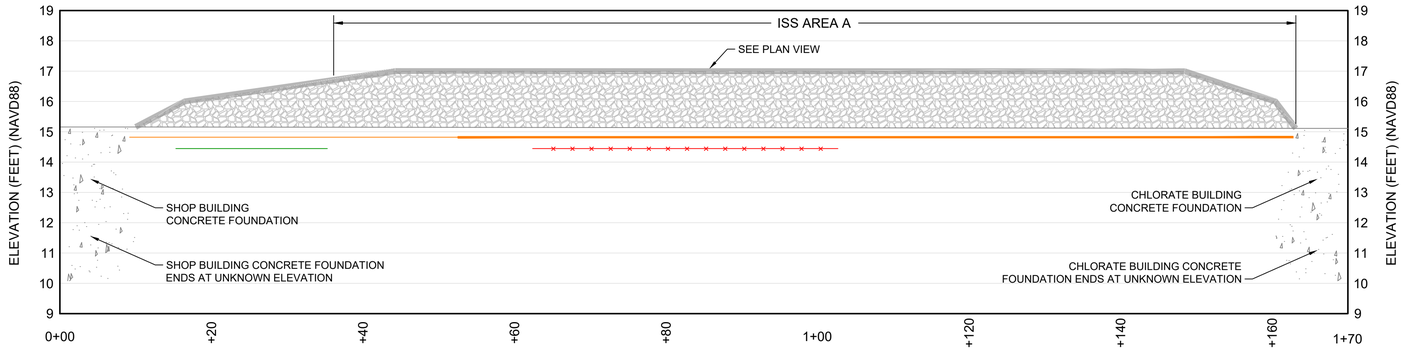
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

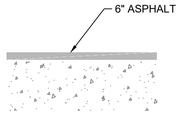
DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: FCB_TEMPCAPREMOV
DRAWING NO.: C-09
SHT 12 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT CI\FCB_TEMPCAPREMOV.DWG Last Edited by: nathan.althauser on 9/1/26



AS-BUILT PAVEMENT & SUBGRADE CONDITIONS (1 / C-09)

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'



AREA OUTSIDE TEMPORARY CAP
(WITHIN ISS AREA A)

DETAIL LEGEND

- CRUSHED BRICK - STOCKPILE FOR OFF-SITE HAZARDOUS DISPOSAL
- **PLACED DURING 2017 INTERIM ACTION**
- HOT MIX ASPHALT (HMA) 3" THICKNESS - STOCKPILE FOR OFF-SITE RECYCLING
- CRUSHED SURFACING BASE COURSE (CSBC) VARIABLE THICKNESS - STOCKPILE FOR REUSE - SEE SHEET C-03
- SEPARATION GEOTEXTILE - DISPOSE WITH HAZARDOUS DEBRIS
- 8" X 20" STEEL ROAD PLATE - TO REMAIN IN PLACE IF POSSIBLE. IF REMOVED, IT SHALL BE DECONTAMINATED AND STAGED ON SITE FOR THE OWNER.

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

MARK WALTERS — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: FORMER CELL BLDG - TEMPORARY CAP REMOVAL SECTIONS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

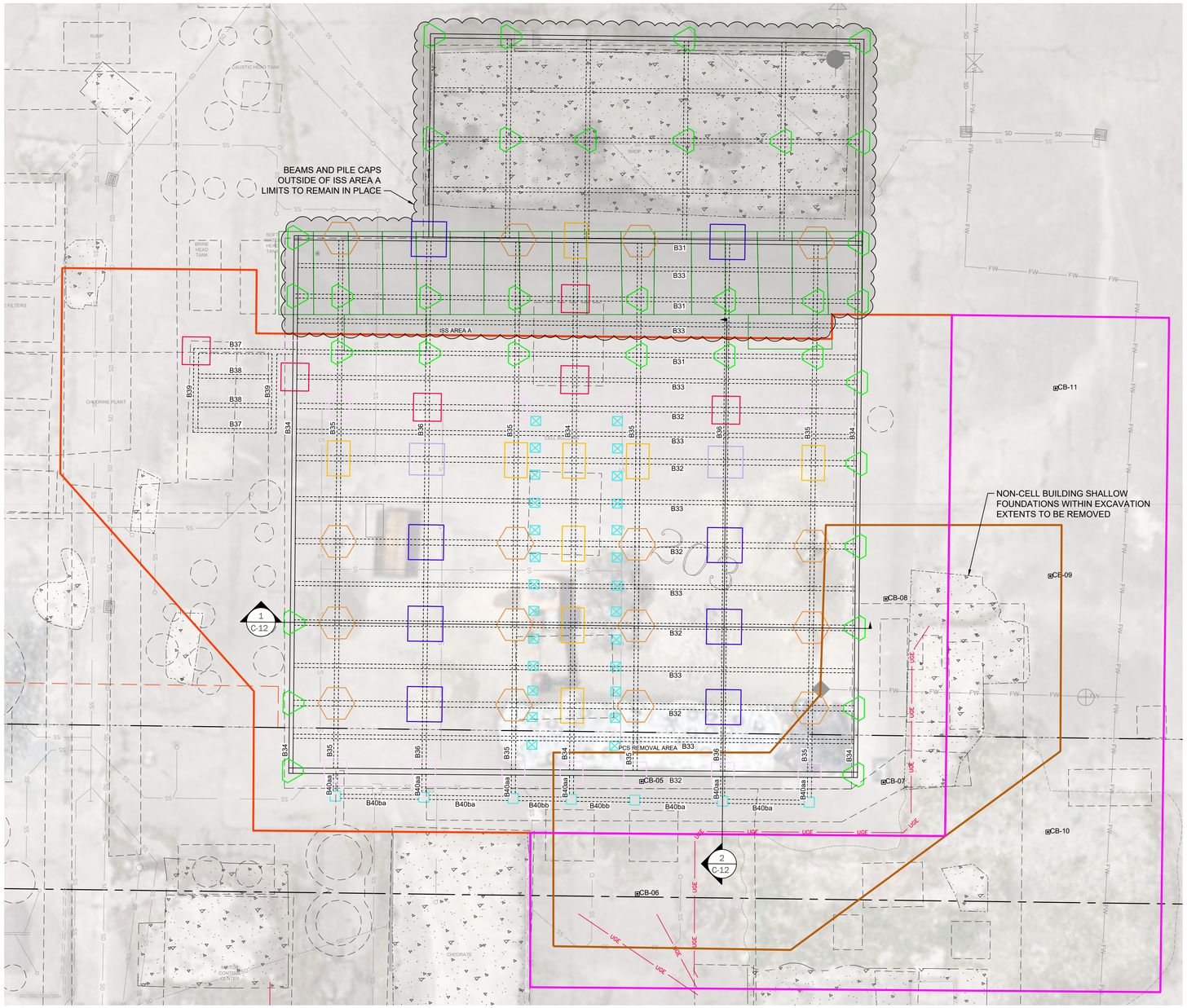
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

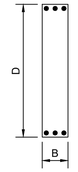
PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: FCB_TEMPORARY CAP REMOVAL SECTIONS
DRAWING NO.: C-10
SHT 13 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT C\FCB_TEMPORARY CAP REMOVAL SECTIONS.DWG Last Edited by: nathan.althauser on 9/1/26





BEAM SECTIONS 1 / -
SCALE: NTS

GRADE BEAM REMOVAL SECTION

BEAM	COUNT	B	D	LENGTH (FT)	VOLUME PER BEAM (CY)	TOTAL VOLUME (CY)
B31	1	12"	25"	136	10	10
B32	6	16"	25+"	136	14	84
B33	6	12"	25+"	136	10	63
B34	3	12"	36"	115	13	38
B35	4	12"	36"	115	13	51
B36	2	12"	36"	115	13	26
B37	1	14"	24"	25	2	2
B38	3	12"	24"	20	1	4
B39	2	12"	36"	19	2	5
B40aa	6	12"	18"	7	0.4	2
B40ba	4	12"	18"	21	1.2	5
B40bb	2	12"	18"	14.25	0.8	2

LEGEND

- EXISTING CONCRETE FOUNDATIONS
- GRADE BEAMS
- B## — GRADE BEAM ID
- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- ISS AREA
- ISS SWELL MANAGEMENT AREA
- SOIL BORING
- PILE CAP P1
- PILE CAP DECOMPOSER P1 (P1 D)
- PILE CAP P3
- PILE CAP P4
- PILE CAP P5
- PILE CAP P6
- PILE CAP P7
- PILE CAP P8
- PILE CAP P9
- STEEL PLATE BENEATH PAVEMENT
- UGE — EXISTING UNDERGROUND POWER LINE

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. ALL PAVEMENTS AND OBSTRUCTIONS WITHIN ISS AND ISS SWELL MANAGEMENT AREA LIMITS SHALL BE REMOVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL STRUCTURES AND PAVEMENTS OUTSIDE OF ISS AND ISS SWELL MANAGEMENT AREA LIMITS NOT INDICATED AS TO BE DEMOLISHED, REMOVED, OR ABANDONED SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE OWNER. DAMAGE TO PROTECTED STRUCTURES, PAVEMENTS, AND UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. OBSTRUCTION REMOVAL TO BE COMPLETED CELL-BY-CELL, INCLUDING SOIL REMOVAL NECESSARY TO REMOVE OBSTRUCTIONS, OBSTRUCTION REMOVAL, SOIL BACKFILLING, AND TEMPORARY COVERING WITH PLASTIC SHEETING OR SIMILAR TO CONTROL MERCURY VAPOR EMISSIONS. AT THE END OF EACH DAY CELL SURFACES MUST CONSIST OF ONE OF THE FOLLOWING: EXPOSED ENGINEERED FILL IMMEDIATELY BENEATH REMOVED TEMPORARY CAP, EXPOSED PILE CAPS COVERED AND ALLOWED TO EXPAND OVERNIGHT FOLLOWING APPLICATION OF DEXPAN OR SIMILAR, OR ALL REMOVED SOIL BACKFILLED AND COVERED FOLLOWING REMOVAL OF ALL NECESSARY OBSTRUCTIONS. CELL SIZES MAY BE DETERMINED BY THE CONTRACTOR, PROVIDED THAT CELLS CAN BE BACKFILLED, COVERED, OR OTHERWISE CLOSED AT THE END OF EACH WORK DAY TO LIMIT MERCURY EMISSIONS, AND DO NOT EXPOSE A CONTINUOUS AREA OF THE AQUITARD GREATER THAN 25 FEET BY 25 FEET. TEMPORARY SHORING OR EXCAVATION SUPPORT IS REQUIRED FOR EXCAVATIONS ASSOCIATED WITH REMOVAL OF PILE CAPS AND TIMBER PILE GROUPS.
4. CONTRACTOR MUST MAINTAIN CELLS FREE OF STANDING WATER. CONTRACTOR SHALL MANAGE WATER BY PUMPING TO DEWATERING TANKS PRIOR TO PERMITTED DISCHARGE TO MANHOLE TO AERATION STABILIZATION BASIN (ASB). CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS FOR DISCHARGE TO THE ASB.
5. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
6. TIMBER PILINGS UNDERNEATH PILE CAPS ARE NOT SHOWN ON THIS SHEET

PROJECT NORTH / TRUE NORTH

0 15 30 Feet

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REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

MARK WALTER DAVIS — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: FORMER CELL BLDG - SHALLOW FOUNDATIONS REMOVAL PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

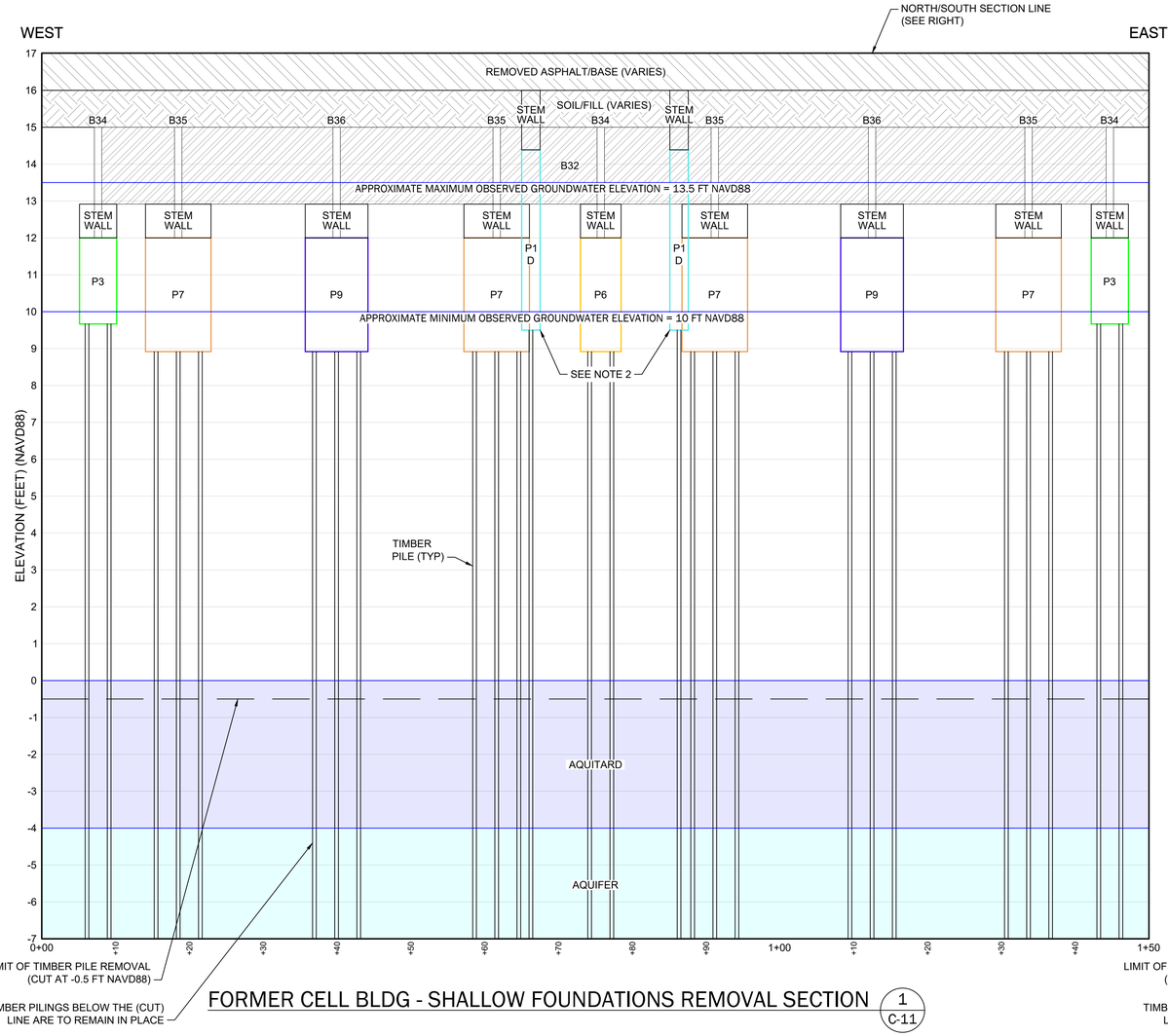
SITE: PORT OF BELLINGHAM BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

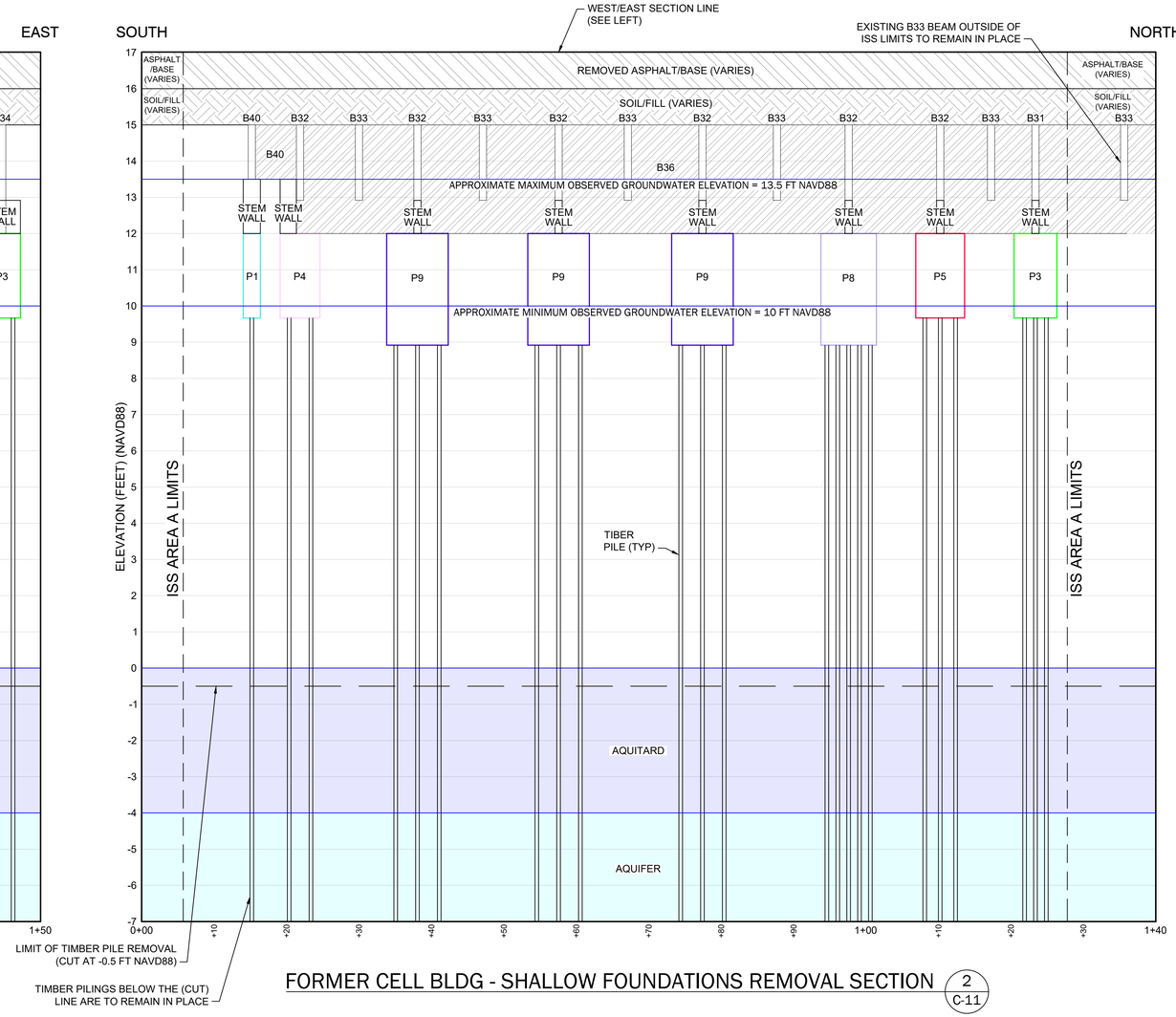
Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: FCB_SHALLOWFNDREMOV
DRAWING NO.: C-11
SHT 14 OF 37

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FORMER CELL BLDG - SHALLOW FOUNDATIONS REMOVAL SECTION 1 C-11



FORMER CELL BLDG - SHALLOW FOUNDATIONS REMOVAL SECTION 2 C-11

Horizontal Scale: 1" = 10'
Vertical Scale: 1" = 2'
Vertical Exaggeration: 5x

0 10 20 Feet

HORIZONTAL SCALE

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. GRADE BEAMS AND PILE CAPS ARE KNOWN TO CONTAIN REBAR.
3. P1D PILE CAPS MAY BE SLIGHTLY OFFSET (NORTH/SOUTH) FROM THE EAST/WEST ORIENTED B32 BEAM.
4. SUBSURFACE OBSTRUCTIONS SHALL BE REMOVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
5. REFER TO SHEET C-11 FOR SHALLOW FOUNDATIONS REMOVAL PLAN, C-13 AND C-14 FOR PILE CAP REMOVAL PLAN AND DETAILS, AND C-15 FOR TIMBER PILING REMOVAL PLAN.
6. AQUITARD THICKNESS IS APPROXIMATE AND INFORMED BY PREVIOUS INVESTIGATIONS/INTERIM ACTIONS.

FOR REVIEW PURPOSES ONLY
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SIGNATURE

DATE

MARK WALTER — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: FORMER CELL BLDG - OBSTRUCTION REMOVAL SECTIONS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

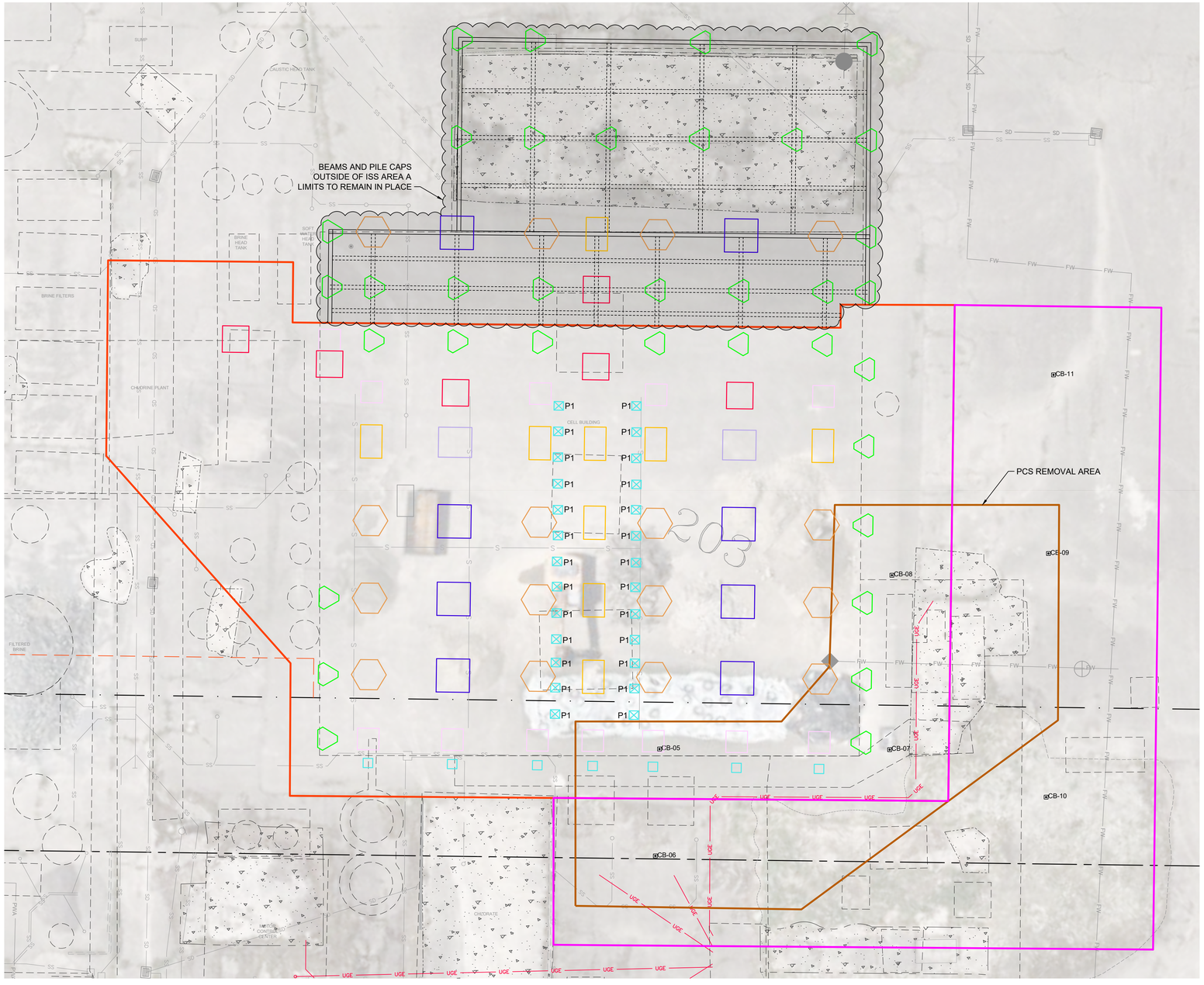
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: FCB_OBSTRCTREMOVSECTIONS
DRAWING NO.: C-12
SHT 15 OF 37

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LEGEND

- EXISTING CONCRETE FOUNDATIONS
- GRADE BEAMS
- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- ISS AREA
- ISS SWELL MANAGEMENT AREA
- SOIL BORING
- PILE CAP P1
- PILE CAP DECOMPOSER P1 (P1 D)
- PILE CAP P3
- PILE CAP P4
- PILE CAP P5
- PILE CAP P6
- PILE CAP P7
- PILE CAP P8
- PILE CAP P9
- UGE — EXISTING UNDERGROUND POWER LINE

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. ALL PAVEMENTS AND OBSTRUCTIONS WITHIN ISS AND ISS SWELL MANAGEMENT AREA LIMITS SHALL BE REMOVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL STRUCTURES AND PAVEMENTS OUTSIDE OF ISS AND ISS SWELL MANAGEMENT AREA LIMITS NOT INDICATED AS TO BE DEMOLISHED, REMOVED, OR ABANDONED SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE OWNER. DAMAGE TO PROTECTED STRUCTURES, PAVEMENTS, AND UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. OBSTRUCTION REMOVAL TO BE COMPLETED CELL-BY-CELL, INCLUDING SOIL REMOVAL NECESSARY TO REMOVE OBSTRUCTIONS, OBSTRUCTION REMOVAL, SOIL BACKFILLING, AND TEMPORARY COVERING WITH PLASTIC SHEETING OR SIMILAR TO CONTROL MERCURY VAPOR EMISSIONS. AT THE END OF EACH DAY CELL SURFACES MUST CONSIST OF ONE OF THE FOLLOWING: IN-TACT TEMPORARY CAP, EXPOSED ENGINEERED FILL IMMEDIATELY BENEATH REMOVED TEMPORARY CAP, EXPOSED PILE CAPS COVERED AND ALLOWED TO EXPAND OVERNIGHT FOLLOWING APPLICATION OF DEXPAN OR SIMILAR, OR ALL REMOVED SOIL BACKFILLED AND COVERED FOLLOWING REMOVAL OF ALL NECESSARY OBSTRUCTIONS. CELL SIZES MAY BE DETERMINED BY THE CONTRACTOR, PROVIDED THAT CELLS CAN BE BACKFILLED, COVERED, OR OTHERWISE CLOSED AT THE END OF EACH WORK DAY TO LIMIT MERCURY EMISSIONS, AND DO NOT EXPOSE A CONTINUOUS AREA OF THE AQUITARD GREATER THAN 25 FEET BY 25 FEET. TEMPORARY SHORING OR EXCAVATION SUPPORT IS REQUIRED FOR EXCAVATIONS ASSOCIATED WITH REMOVAL OF PILE CAPS AND TIMBER PILE GROUPS.
4. CONTRACTOR MUST MAINTAIN CELLS FREE OF STANDING WATER. CONTRACTOR SHALL MANAGE WATER BY PUMPING TO DEWATERING TANKS PRIOR TO PERMITTED DISCHARGE TO MANHOLE TO AERATION STABILIZATION BASIN (ASB). CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS FOR DISCHARGE TO THE ASB.
5. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
6. REMOVED OBSTRUCTIONS (SHALLOW FOUNDATIONS) AND TIMBER PILINGS UNDERNEATH PILE CAPS ARE NOT SHOWN ON THIS SHEET. REFER TO SHEET C-11 FOR SHALLOW FOUNDATIONS REMOVAL PLAN AND C-15 FOR TIMBER PILE REMOVAL PLAN.

PILE CAP REMOVAL SCHEDULE

PILE CAP	COUNT	APPROXIMATE VOLUME PER PILE CAP (CY)	APPROXIMATE TOTAL VOLUME (CY)
PILE CAP P1	7	0.5	3.5
PILE CAP P1D	26	1	27
PILE CAP P3	15	2	36
PILE CAP P4	12	2	27
PILE CAP P5	5	3	17
PILE CAP P6	8	5	38
PILE CAP P7	12	4	53
PILE CAP P8	2	7	13
PILE CAP P9	6	7	44

PROJECT NORTH TRUE NORTH

0 15 30 Feet

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REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

MARK WALKER — STATE OF WASHINGTON — 26018230 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: FORMER CELL BLDG - PILE CAP REMOVAL PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

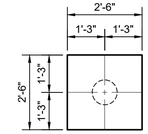
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

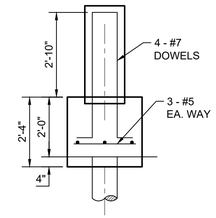
Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: FCB_PILECAPREMOV
DRAWING NO.: C-13
SHT 16 OF 37

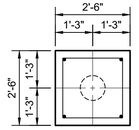
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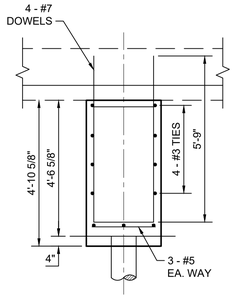
PLAN PILE CAP P1 (1) SCALE: NTS



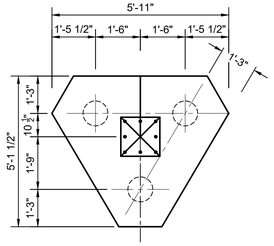
ELEVATION P1 (1) SCALE: NTS



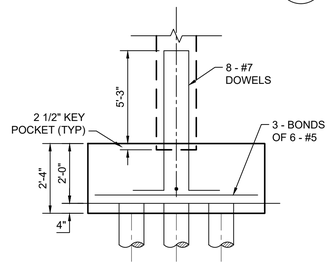
PLAN PILE CAP P1D UNDER DECOMPOSER PADS (2) SCALE: NTS



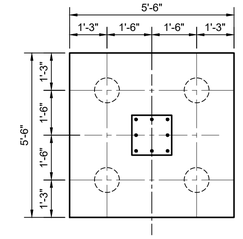
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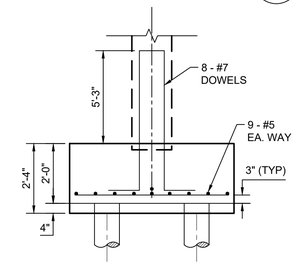
PLAN PILE CAP P3 (3) SCALE: NTS



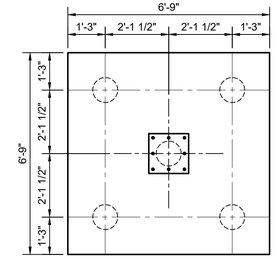
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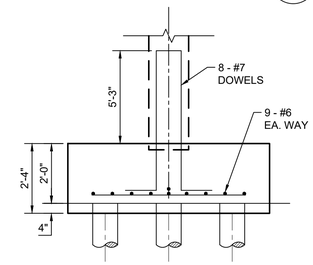
PLAN PILE CAP P4 (4) SCALE: NTS



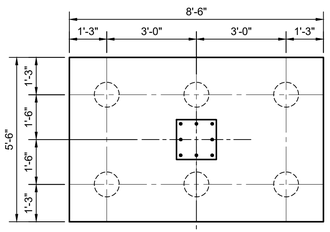
ELEVATION P4 (4) SCALE: NTS



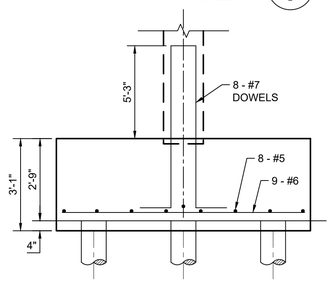
PLAN PILE CAP P5 (5) SCALE: NTS



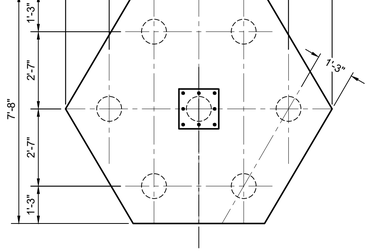
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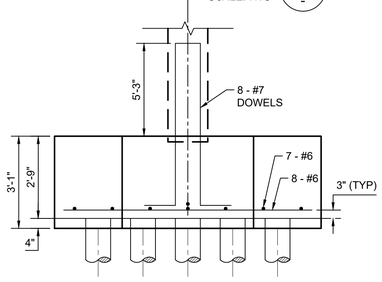
PLAN PILE CAP P6 (6) SCALE: NTS



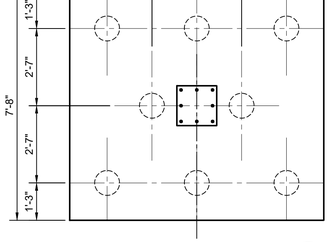
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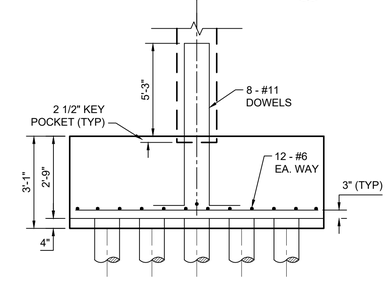
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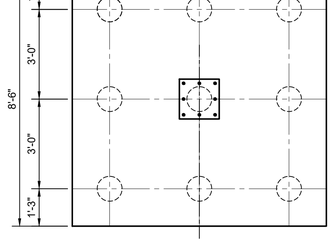
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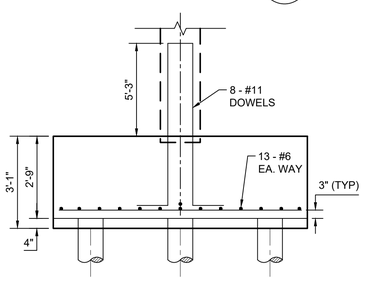
PLAN PILE CAP P8 (8) SCALE: NTS



ELEVATION P8 (8) SCALE: NTS



PLAN PILE CAP P9 (9) SCALE: NTS



ELEVATION P9 (9) SCALE: NTS

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SIGNATURE

DATE

MARK WALTER — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: FORMER CELL BLDG - PILE CAP REMOVAL DETAILS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

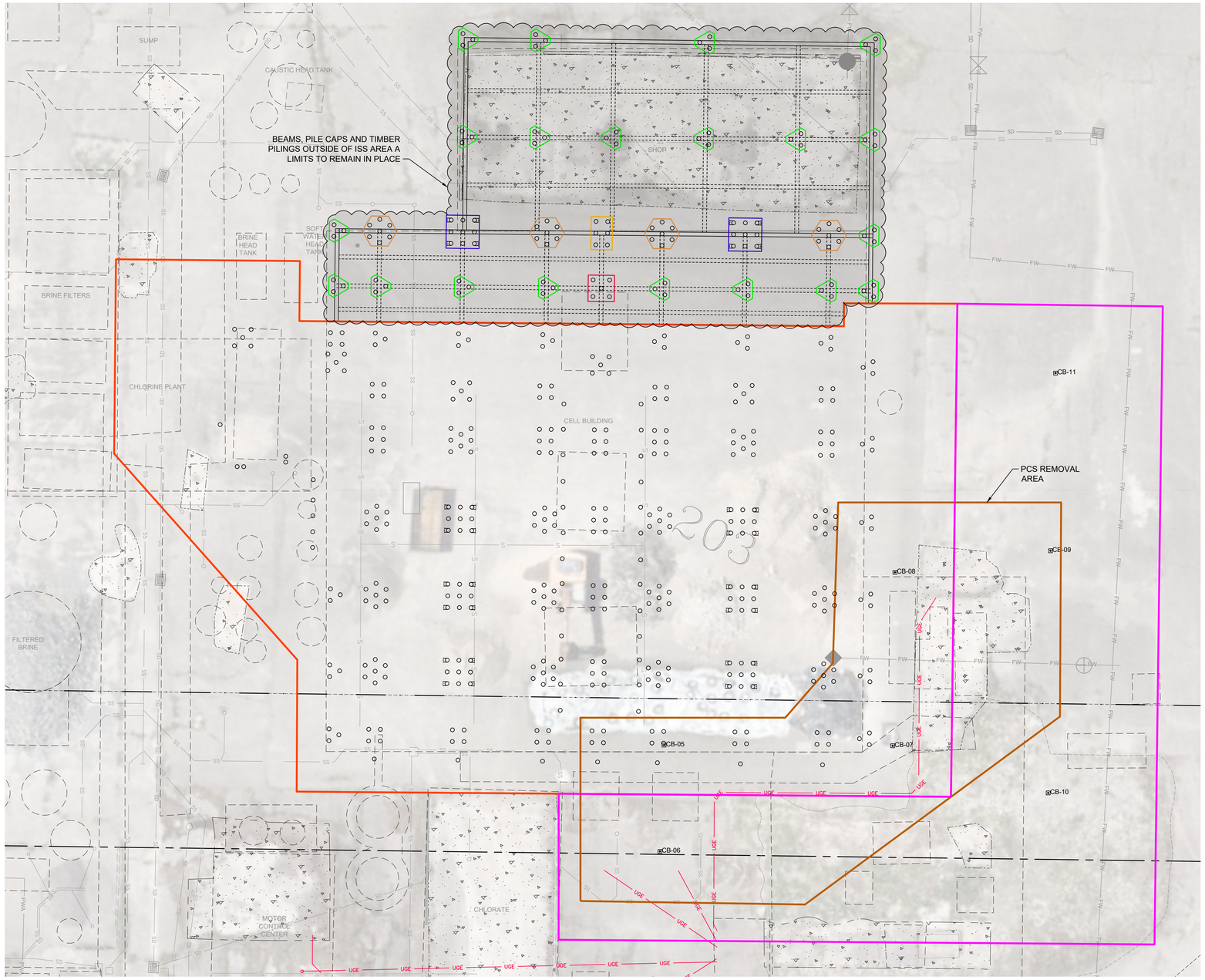
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: FCB_PILECAPREMOV
DRAWING NO.: C-14
SHT 17 OF 37

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NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. ALL PAVEMENTS AND OBSTRUCTIONS WITHIN ISS AND ISS SWELL MANAGEMENT AREA LIMITS SHALL BE REMOVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL STRUCTURES AND PAVEMENTS OUTSIDE OF ISS AND ISS SWELL MANAGEMENT AREA LIMITS NOT INDICATED AS TO BE DEMOLISHED, REMOVED, OR ABANDONED SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE OWNER. DAMAGE TO PROTECTED STRUCTURES, PAVEMENTS, AND UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
3. REMOVED OBSTRUCTIONS (SHALLOW FOUNDATIONS AND PILE CAPS) ARE NOT SHOWN ON THIS SHEET. REFER TO SHEET C-11 FOR SHALLOW FOUNDATIONS REMOVAL PLAN AND C-13 AND C-14 FOR PILE CAP REMOVAL PLAN AND DETAILS.

LEGEND

- EXISTING CONCRETE FOUNDATIONS
- GRADE BEAMS
- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- ISS AREA
- ISS SWELL MANAGEMENT AREA
- UGE — EXISTING UNDERGROUND POWER LINE
- SOIL BORING
- PILE PI / P1D
- PILE P3
- PILE P4
- PILE P5
- PILE P6
- PILE P7
- PILE P8
- PILE P9
- BATTERED PILE AT A 1H:6V SLOPE
- PILE CAP P3
- PILE CAP P5
- PILE CAP P6
- PILE CAP P7
- PILE CAP P9

PROJECT NORTH TRUE NORTH

0 15 30 Feet

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SIGNATURE

DATE

MARK WALKER — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: FORMER CELL BLDG - TIMBER PILE REMOVAL PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

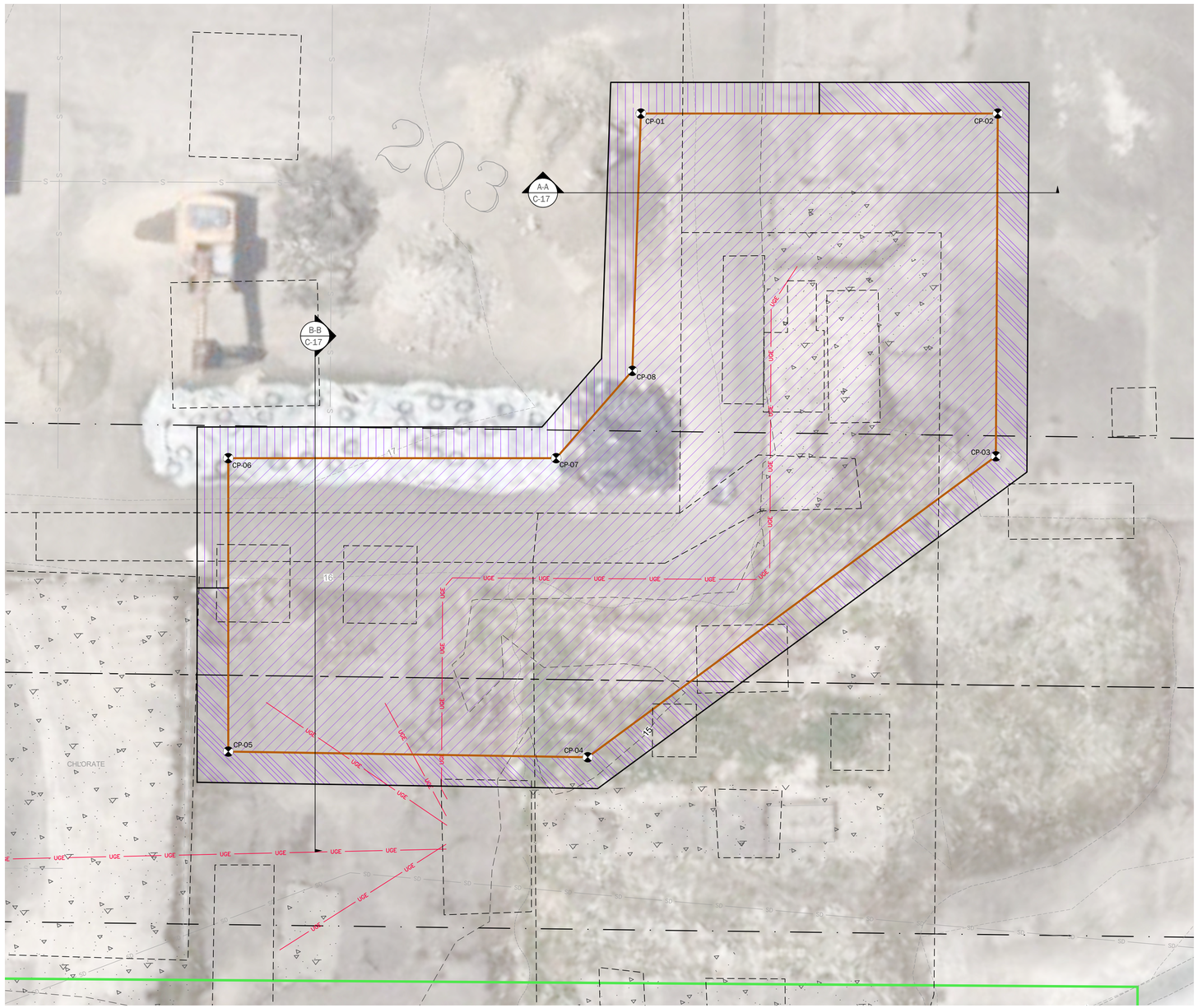
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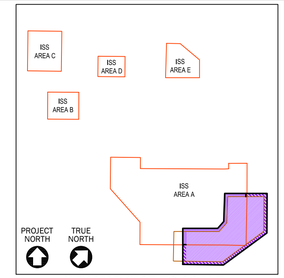
PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: FCB_WOODPILEREMOV
DRAWING NO.: C-15
SHT 18 OF 37

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KEY MAP (NOT TO SCALE)

Petroleum Contaminated Soil Control Point Table		
Point #	Northing	Easting
CP-01	640884.99	1241044.21
CP-02	640925.47	1241084.70
CP-03	640886.39	1241123.35
CP-04	640805.97	1241111.18
CP-05	640765.84	1241069.77
CP-06	640799.11	1241036.50
CP-07	640836.30	1241073.68
CP-08	640854.85	1241072.42

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. CONTRACTOR MUST KEEP PCS SEGREGATED FROM ELEMENTAL MERCURY-IMPACTED SOILS.
3. EXCAVATION MUST BE SLOPED OR SHORED WHERE GREATER THAN 4 FT BGS.

LEGEND

- PROJECT DISTURBANCE LIMITS
- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- EXCAVATION SIDE SLOPES (APPROX. 1H:1V)
- NON-HAZARDOUS PETROLEUM CONTAMINATED SOILS (PCS)
- EXCAVATION SIDE SLOPES (APPROX. 1H:1V) - ELEMENTAL MERCURY IMPACTED SOIL
- UGE — EXISTING UNDERGROUND POWER LINE

0 10 20 Feet

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SIGNATURE

DATE

JOSEPH ROBERT RADTKEY, STATE OF WASHINGTON, 24013853, REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: PETROLEUM CONTAMINATED SOIL REMOVAL PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

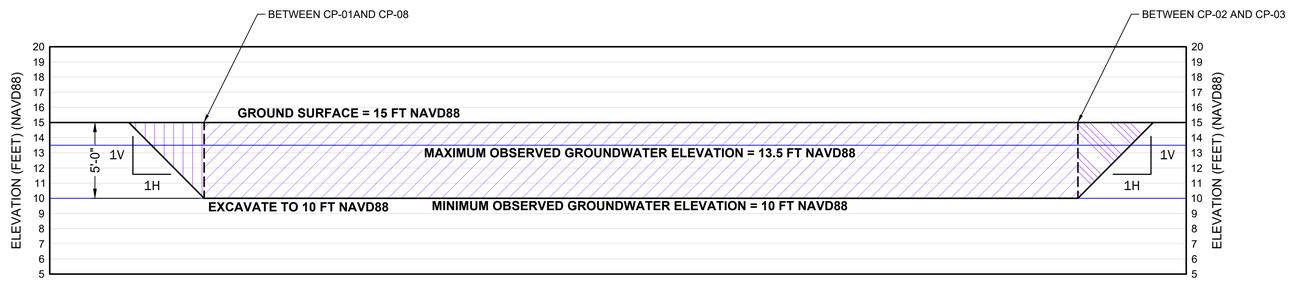
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: TPH SOIL REMV PLAN
DRAWING NO.: C-16
SHT 19 OF 37

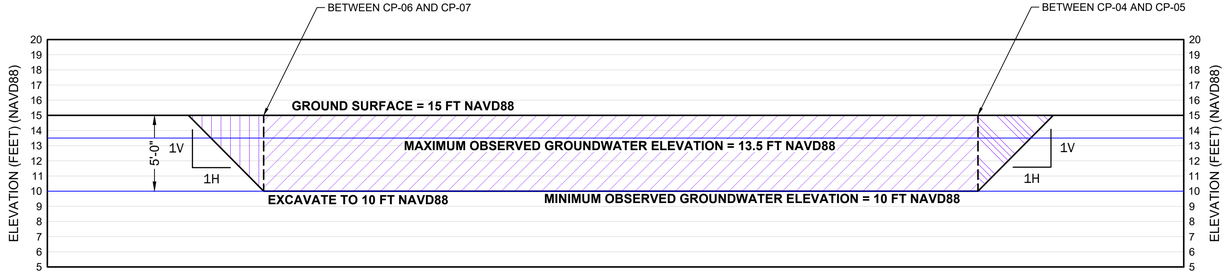
Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT C\TPH SOIL REMV PLAN.DWG Last Edited by: nathan.althauser on 9/1/26



CROSS SECTION A-A (C-16)
SCALE: 1" = 5'

LEGEND

- EXCAVATION SIDE SLOPES (APPROX. 1H:1V)
- NON-HAZARDOUS PETROLEUM CONTAMINATED SOILS (PCS)
- EXCAVATION SIDE SLOPES (APPROX. 1H:1V) - ELEMENTAL MERCURY IMPACTED SOIL



CROSS SECTION B-B (C-16)
SCALE: 1" = 5'

NOTES:

.. REFER TO SHEET G-02 FOR GENERAL NOTES AND LEGEND.

2. ALL STRUCTURES AND PAVEMENTS NOT INDICATED AS TO BE DEMOLISHED OR ABANDONED SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE OWNER. DAMAGE TO PROTECTED STRUCTURES, PAVEMENTS, AND UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. EXCAVATION DEEPER THAN 4 FEET IN HEIGHT SHALL BE SLOPED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT PROPOSED EXCAVATION PLAN FOR ENGINEER REVIEW AND ACCEPTANCE PRIOR TO ANY EXCAVATION WORK.
4. CONTRACTOR MUST KEEP PCS SEGREGATED FROM ELEMENTAL MERCURY-IMPACTED SOILS.
5. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.

0 5 10 Feet

FOR REVIEW PURPOSES ONLY
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SIGNATURE

DATE

JOSEPH ROBERT RINGHAM — STATE OF WASHINGTON — 24025852 — REGISTERED PROFESSIONAL ENGINEER

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HGR
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: PETROLEUM CONTAMINATED SOIL REMOVAL SECTIONS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

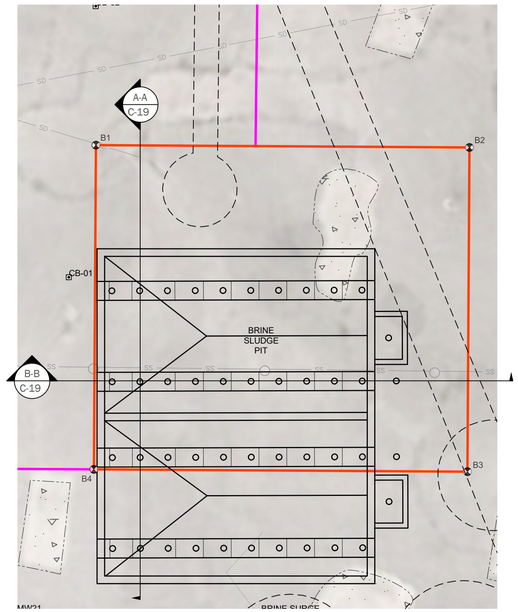
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

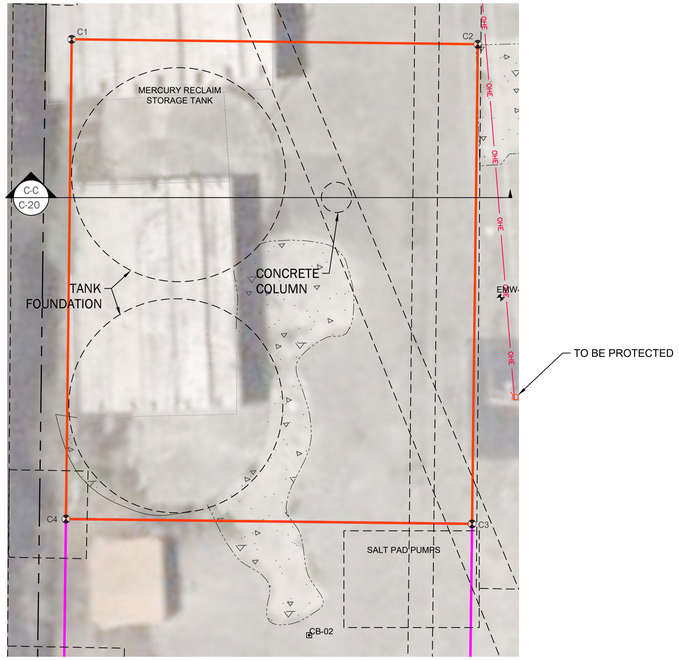
Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: TPH SOIL REMV PLAN
DRAWING NO.: C-17
SHT 20 OF 37

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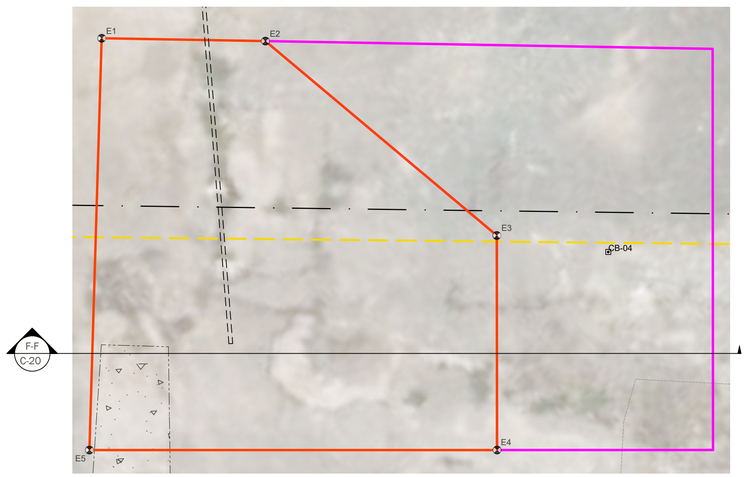
ISS AREA B - OBSTRUCTION REMOVAL PLAN (1 / C-18)
SCALE: 1" = 10'



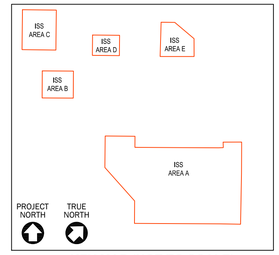
ISS AREA C - OBSTRUCTION REMOVAL PLAN (2 / C-18)
SCALE: 1" = 10'



ISS AREA D - OBSTRUCTION REMOVAL PLAN (3 / C-18)
SCALE: 1" = 10'



ISS AREA E - OBSTRUCTION REMOVAL PLAN (4 / C-18)
SCALE: 1" = 10'



KEY MAP (NOT TO SCALE)

Control Point Table		
Point #	Northing	Easting
B1	640800.47	1240725.63
B2	640835.11	1240760.71
B3	640804.67	1240790.77
B4	640770.03	1240755.70
C1	640846.88	1240634.87
C2	640884.32	1240673.23
C3	640839.02	1240717.45
C4	640801.58	1240679.10
D1	640896.94	1240741.78
D2	640926.91	1240772.32
D3	640903.94	1240794.86
D4	640873.97	1240764.33
E1	640988.09	1240804.11
E2	641003.11	1240819.65
E3	641006.57	1240859.39
E4	640986.57	1240879.43
E5	640948.53	1240841.39

EXCAVATION SCHEDULE
Area B
Surface Pavement
Brine Sludge Pit Walls
Brine Sludge Pit Concrete Slab/Foundation
Brine Sludge Pit Pile Caps
Brine Sludge Pit Wood Piles
Catch Basin #1002
Area C
Surface Pavement
Tank Foundation 1
Tank Foundation 2
Concrete Column
Area D
Surface Pavement
Collection Tank Walls
Collection Tank Foundation
Collection Tank Pile Caps (if present)
Collection Tank Wood Piles (if present)
Stormwater Vault
Metal bar @ ATP-16A
Catch Basin #1000
Area E
Surface Pavement
Loose Concrete @ ATP-14A

NOTES

1. REFER TO SHEETS G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. CONTRACTOR SHALL BEGIN OBSTRUCTION REMOVAL OF EACH ISS AREA WITH THE REMOVAL OF SURFACE PAVEMENT. PAVEMENT REMOVAL IN EACH AREA WILL OCCUR JUST PRIOR TO STARTING CLEANUP FOR THAT AREA.
3. DURING OBSTRUCTION REMOVAL, THE CONTRACTOR SHALL TEMPORARILY REMOVE AND STOCKPILE SOIL NECESSARY TO EXPOSE, DEMOLISH, AND REMOVE THE CONCRETE STRUCTURAL ELEMENTS AND THEIR TIMBER PILES (IF PRESENT) DOWN TO 6 INCHES BELOW THE AQUITARD SURFACE.
4. THE FINAL EXCAVATION EXTENTS MAY BE WIDER OR DEEPER THAN EXTENTS SHOWN AS DETERMINED BY THE ENGINEER.
5. EXCAVATION DEEPER THAN 4 FEET IN HEIGHT SHALL BE SHORED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT PROPOSED EXCAVATION PLAN FOR ENGINEER REVIEW AND ACCEPTANCE PRIOR TO ANY EXCAVATION WORK.
6. CONTRACTOR MUST MAINTAIN CELLS FREE OF STANDING WATER. CONTRACTOR SHALL MANAGE WATER BY PUMPING TO DEWATERING TANKS PRIOR TO PERMITTED DISCHARGE TO MANHOLE TO AERATION STABILIZATION BASIN (ASB). CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS FOR DISCHARGE TO THE ASB.
7. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.

LEGEND

- OBSTRUCTION REMOVAL AND SOILS CONTAINING ELEMENTAL MERCURY
- EXTENT OF SWELL MANAGEMENT AREA
- B1 CONTROL POINTS
- MONITORING WELL
- CATCH BASIN
- GRANITE LEASE BOUNDARY LINE
- EXISTING CONCRETE FOUNDATIONS

PROJECT NORTH / TRUE NORTH

0 10 20 Feet

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REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

MARK WALKER — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: ISS AREAS B,C,D,E OBSTRUCTION REMOVAL PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

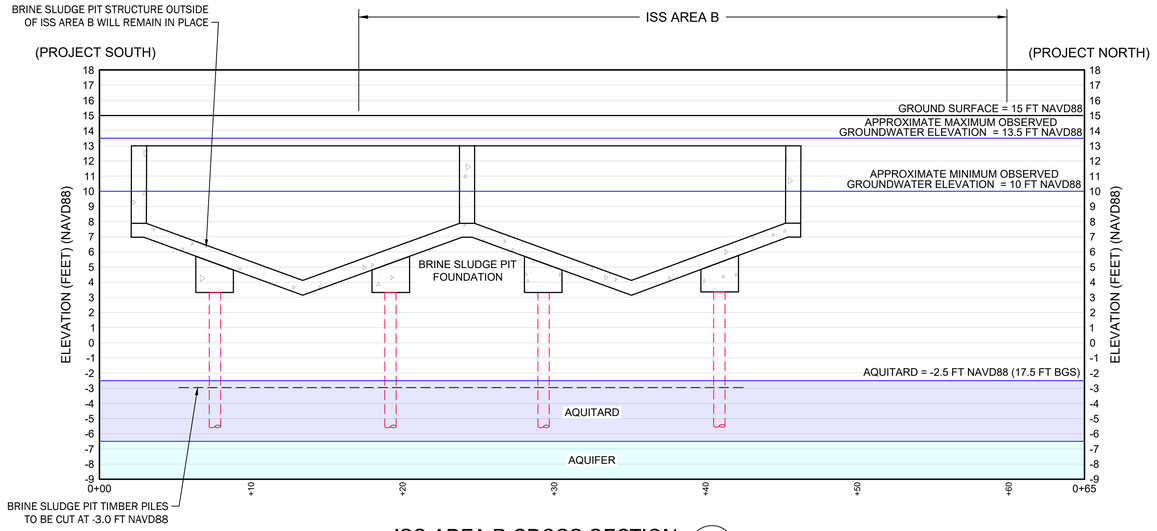
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

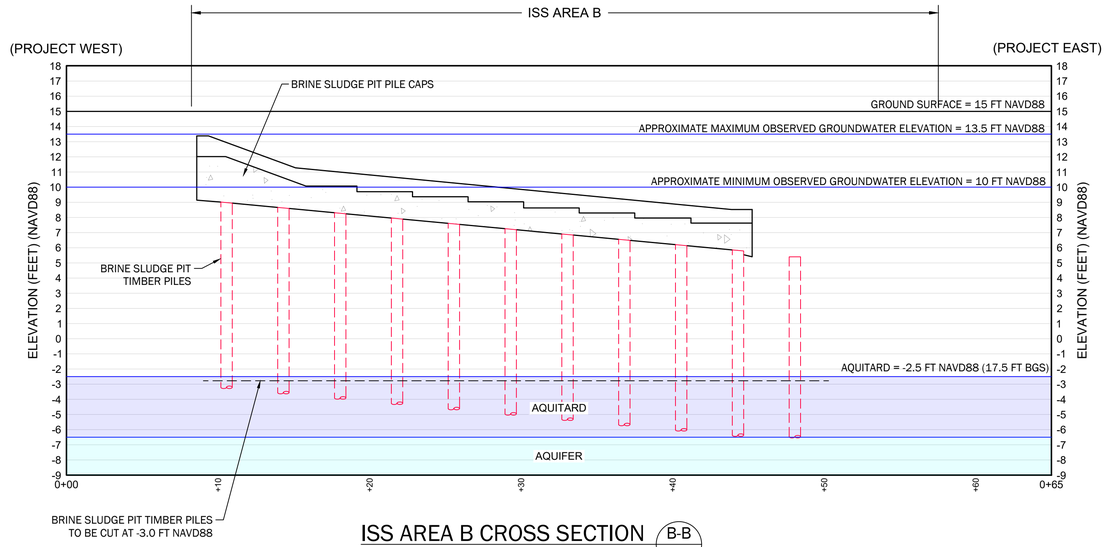
DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: ISS BCDE_OBST REMV PLAN
DRAWING NO.: C-18
SHT 21 OF 37

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ISS AREA B CROSS-SECTION (A-A / C-18)

HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'



ISS AREA B CROSS SECTION (B-B / C-18)

HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'

LEGEND

- CONCRETE OBSTRUCTION
- WOOD PILE OBSTRUCTION

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. ALL PAVEMENTS AND OBSTRUCTIONS WITHIN ISS AND ISS SWELL MANAGEMENT AREA LIMITS SHALL BE REMOVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL STRUCTURES AND PAVEMENTS OUTSIDE OF ISS AND ISS SWELL MANAGEMENT AREA LIMITS NOT INDICATED AS TO BE DEMOLISHED, REMOVED, OR ABANDONED SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE OWNER. DAMAGE TO PROTECTED STRUCTURES, PAVEMENTS, AND UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
3. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
4. AQUITARD THICKNESS IS APPROXIMATE AND INFORMED BY PREVIOUS INVESTIGATIONS/INTERIM ACTIONS.

0 5 10 Feet

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REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

MARK WALLER HAMILTON — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: ISS AREA B OBSTRUCTION REVOVAL SECTIONS AND DETAILS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

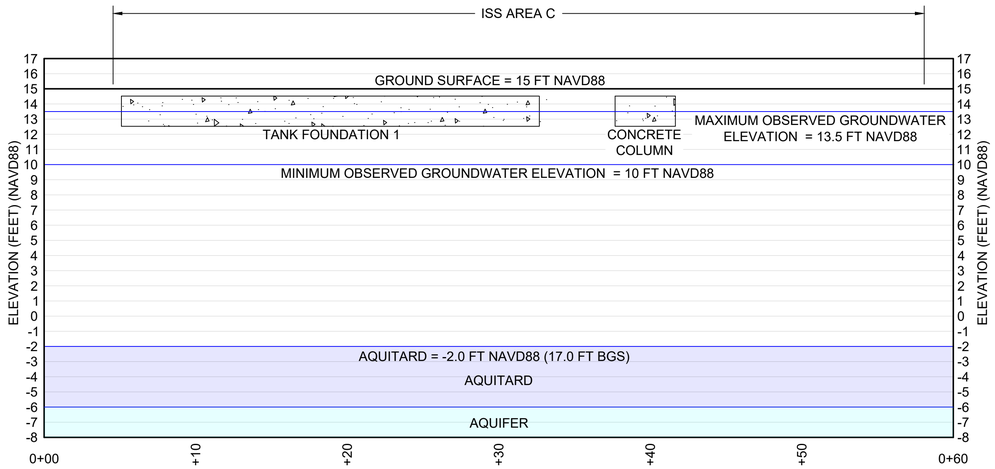
SITE: PORT OF BELLINGHAM BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

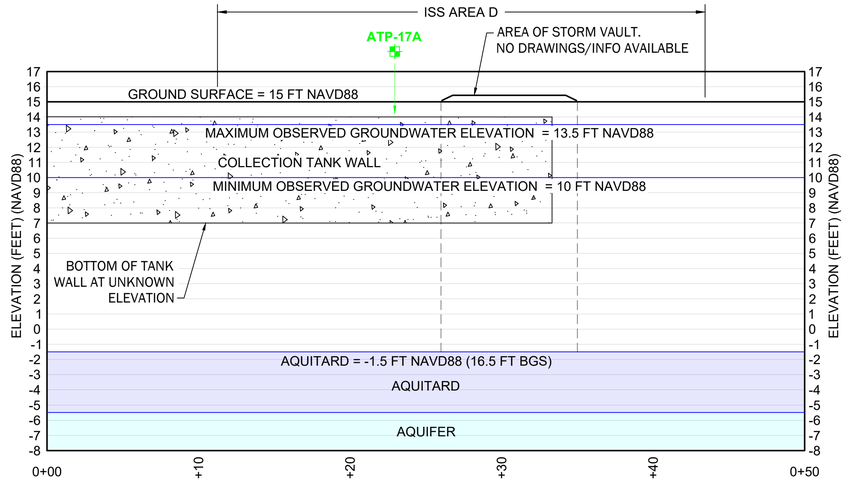
DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: ISS BCDE OBST_REMOV SECT
DRAWING NO.: C-19
SHT 22 OF 37

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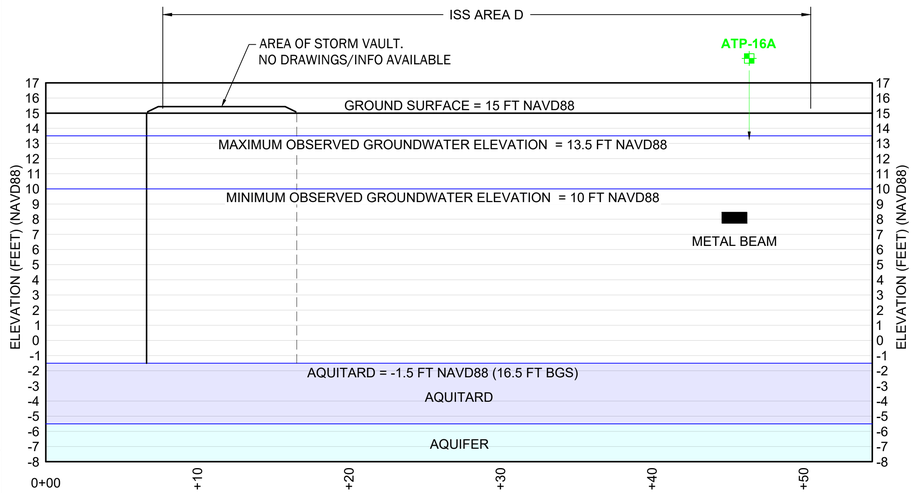
ISS AREA C CROSS SECTION (C-C, C-18)

SCALE: 1" = 5'



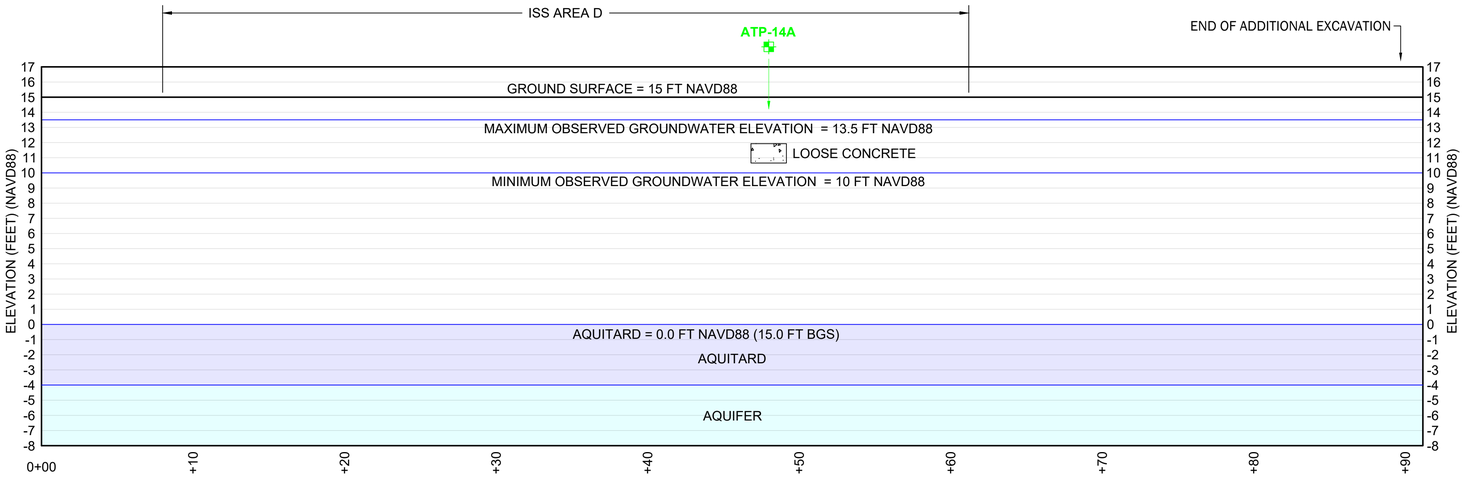
ISS AREA D CROSS SECTION (D-D, C-18)

SCALE: 1" = 5'



ISS AREA D CROSS SECTION (E-E, C-18)

SCALE: 1" = 5'



ISS AREA E CROSS SECTION (F-F, C-18)

SCALE: 1" = 5'

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. ALL PAVEMENTS AND OBSTRUCTIONS WITHIN ISS AND ISS SWELL MANAGEMENT AREA LIMITS SHALL BE REMOVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL STRUCTURES AND PAVEMENTS OUTSIDE OF ISS AND ISS SWELL MANAGEMENT AREA LIMITS NOT INDICATED AS TO BE DEMOLISHED, REMOVED, OR ABANDONED SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE OWNER. DAMAGE TO PROTECTED STRUCTURES, PAVEMENTS, AND UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
3. ALL STRUCTURES AND PAVEMENTS NOT INDICATED AS TO BE DEMOLISHED OR ABANDONED SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE OWNER. DAMAGE TO PROTECTED STRUCTURES, PAVEMENTS, AND UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
5. AQUITARD THICKNESS IS APPROXIMATE AND INFORMED BY PREVIOUS INVESTIGATIONS/INTERIM ACTIONS.

LEGEND

CONCRETE OBSTRUCTION

TEST PIT

0 5 10 Feet

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SIGNATURE

DATE

MARK WALTER JOHNSON — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: ISS AREAS C, D, E OBSTRUCTION REMOVAL SECTIONS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

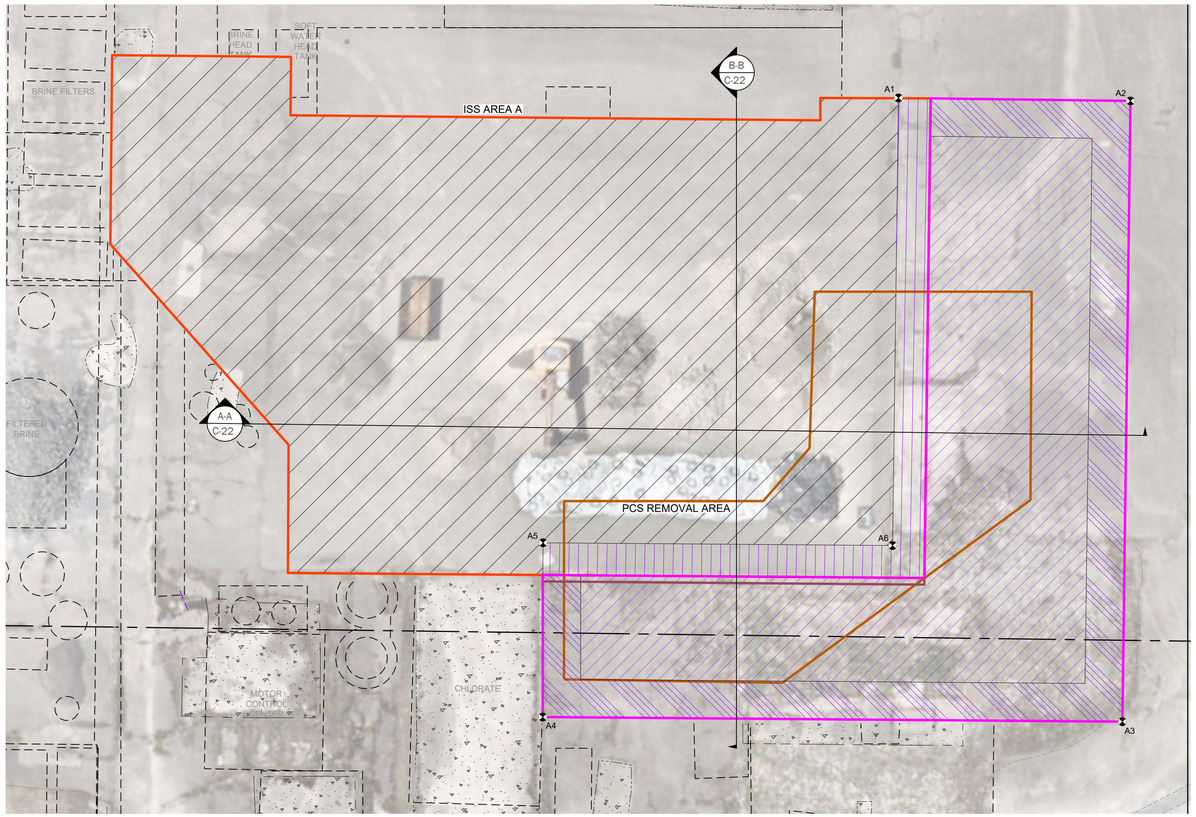
PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: ISS BCDE OBST_REMOV SECT
DRAWING NO.: C-20
SHT 23 OF 37

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Control Point Table		
Point #	Northing	Easting
A1	640936.78	1241023.68
A2	640979.53	1241067.55
A3	640862.18	1241181.89
A4	640754.83	1241072.84
A5	640787.42	1241040.37
A6	640852.15	1241106.13



ISS AREA A - ISS SWELL MANAGEMENT AREA EXCAVATION PLAN (1 / C-23)
SCALE: 1" = 10'

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. EXCAVATION MUST BE SLOPED OR SHORED WHERE GREATER THAN 4 FT BGS.
3. CONTRACTOR MUST KEEP PCS SEGREGATED FROM ELEMENTAL MERCURY-IMPACTED SOILS.
4. EXCAVATION SUPPORT SYSTEM TO BE DESIGNED BY CONTRACTOR.
5. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
6. THE CONTRACTOR SHALL EXCAVATE A SUFFICIENT VOLUME TO MANAGE ISS SWELL MATERIAL SO THAT THE FINAL TREATED ISS MONOLITH ELEVATIONS DO NOT EXCEED 14 FT NAVD88. THE INDICATED EXCAVATION DEPTHS ARE THE MAXIMUM ALLOWED DEPTHS FOR THE ISS SWELL MANAGEMENT AREAS. ALTERATIONS TO THE ISS SWELL MANAGEMENT AREAS MUST BE ACCEPTED BY THE ENGINEER IN WRITING.

LEGEND

- PROJECT LIMITS
- OBSTRUCTION REMOVAL AND IN-SITU SOLIDIFICATION OF SOILS
- EXCAVATION TO 10 FT BGS
- EXCAVATION SIDE SLOPES (APPROX. 1H:1V) - ELEMENTAL MERCURY-IMPACTED SOIL
- EXCAVATION SIDE SLOPES (APPROX. 1H:1V)
- PCS REMOVAL AREA
- ISS SWELL MANAGEMENT AREA
- BACKFILLED ELEMENTAL MERCURY-IMPACTED SOILS FOLLOWING OBSTRUCTION AND PCS REMOVAL AND PRIOR TO MIXING

PROJECT NORTH / TRUE NORTH

0 20 40 Feet

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SIGNATURE

DATE

JOSEPH ROBERT RADTKEY, STATE OF WASHINGTON, 24013853, REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: ISS AREA A - ISS SWELL MANAGEMENT AREAS EXCAVATION PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

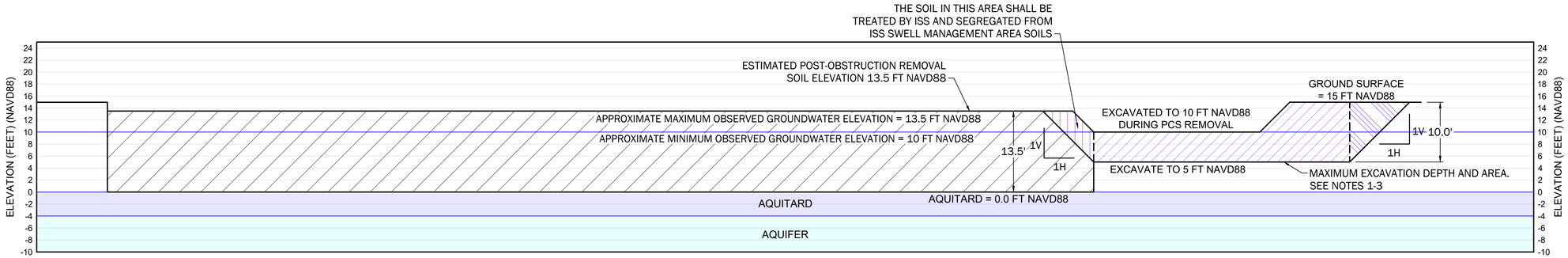
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: ISS ADDL EXCAV PLAN
DRAWING NO.: C-21
SHT 24 OF 37

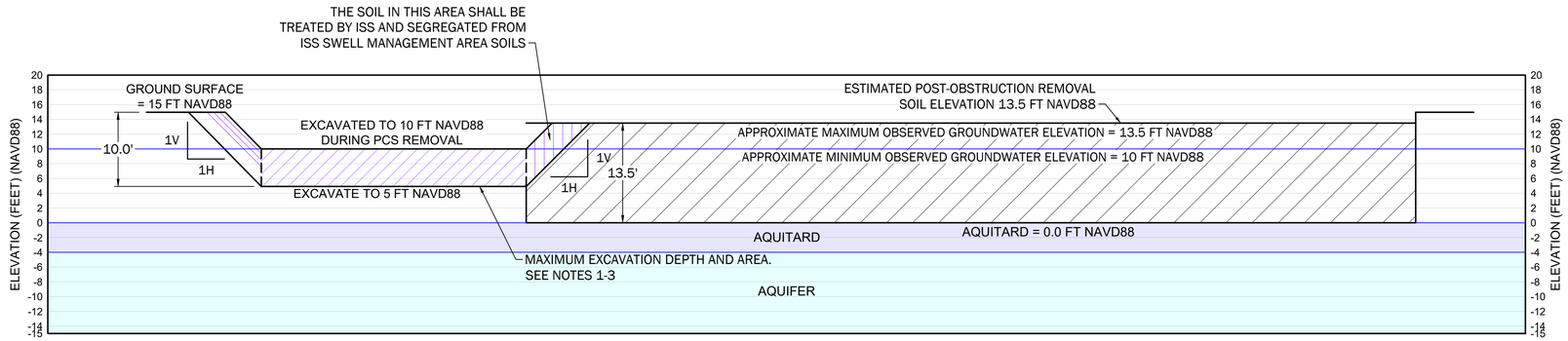
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ISS AREA A - ISS SWELL MANAGEMENT AREA EXCAVATION CROSS SECTION A-A

SCALE: 1" = 10'

A-A
C-21



ISS AREA A - ISS SWELL MANAGEMENT AREA EXCAVATION CROSS SECTION B-B

SCALE: 1" = 10'

B-B
C-21

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. THE EXCAVATIONS SHOWN ON THIS SHEET ARE FOR ISS SWELL MANAGEMENT PURPOSES. THE CONTRACTOR SHALL NOT MANAGE ISS SWELL OUTSIDE OF THE ISS AND ISS SWELL MANAGEMENT AREAS.
3. THE CONTRACTOR SHALL EXCAVATE A SUFFICIENT VOLUME TO MANAGE ISS SWELL MATERIAL SO THAT THE FINAL TREATED ISS MONOLITH ELEVATION DOES NOT EXCEED 14 FT NAVD88. THE INDICATED EXCAVATION DEPTHS ARE THE MAXIMUM ALLOWED DEPTHS FOR THE ISS SWELL MANAGEMENT AREAS. ALTERATION TO THE ISS SWELL MANAGEMENT AREAS MUST BE ACCEPTED BY THE ENGINEER IN WRITING.
4. THE ISS SWELL MANAGEMENT AREAS MAY BE BACKFILLED WITH ELEMENTAL-MERCURY IMPACTED SOILS FROM ISS AREAS FOLLOWING OBSTRUCTION REMOVAL FOR ISS TREATMENT WITHIN THE ISS SWELL MANAGEMENT AREAS OR WITH ISS SWELL MATERIAL GENERATED BY MIXING ACTIVITIES WITHIN ISS AREAS IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
5. EXCAVATION DEEPER THAN 4 FEET IN HEIGHT SHALL BE SLOPED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT PROPOSED EXCAVATION PLAN FOR ENGINEER REVIEW AND ACCEPTANCE PRIOR TO ANY EXCAVATION WORK.
6. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
7. CONTRACTOR MUST KEEP SOILS THAT SHALL BE TREATED BY ISS SEGREGATED FROM SOILS EXCAVATED FROM THE ISS SWELL MANAGEMENT AREAS.
8. AQUITARD THICKNESS IS APPROXIMATE AND INFORMED BY PREVIOUS INVESTIGATIONS/INTERIM ACTIONS.

LEGEND

- EXCAVATION TO 10 FT BGS
- EXCAVATION SIDE SLOPES (APPROX. 1H:1V)
- BACKFILLED ELEMENTAL MERCURY-IMPACTED SOILS FOLLOWING OBSTRUCTION AND PCS REMOVAL AND PRIOR TO MIXING
- ELEMENTAL MERCURY-IMPACTED EXCAVATION SIDE SLOPES (APPROX. 1H:1V) FOR ISS TREATMENT, CONTRACTOR SHALL KEEP SEGREGATED
- AQUITARD
- AQUIFER

0 10 20 Feet

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SIGNATURE

DATE

JOSEPH ROBERT RINGHAM — STATE OF WASHINGTON — 24025852 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: ISS AREA A - ISS SWELL MANAGEMENT AREAS EXCAVATION SECTIONS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

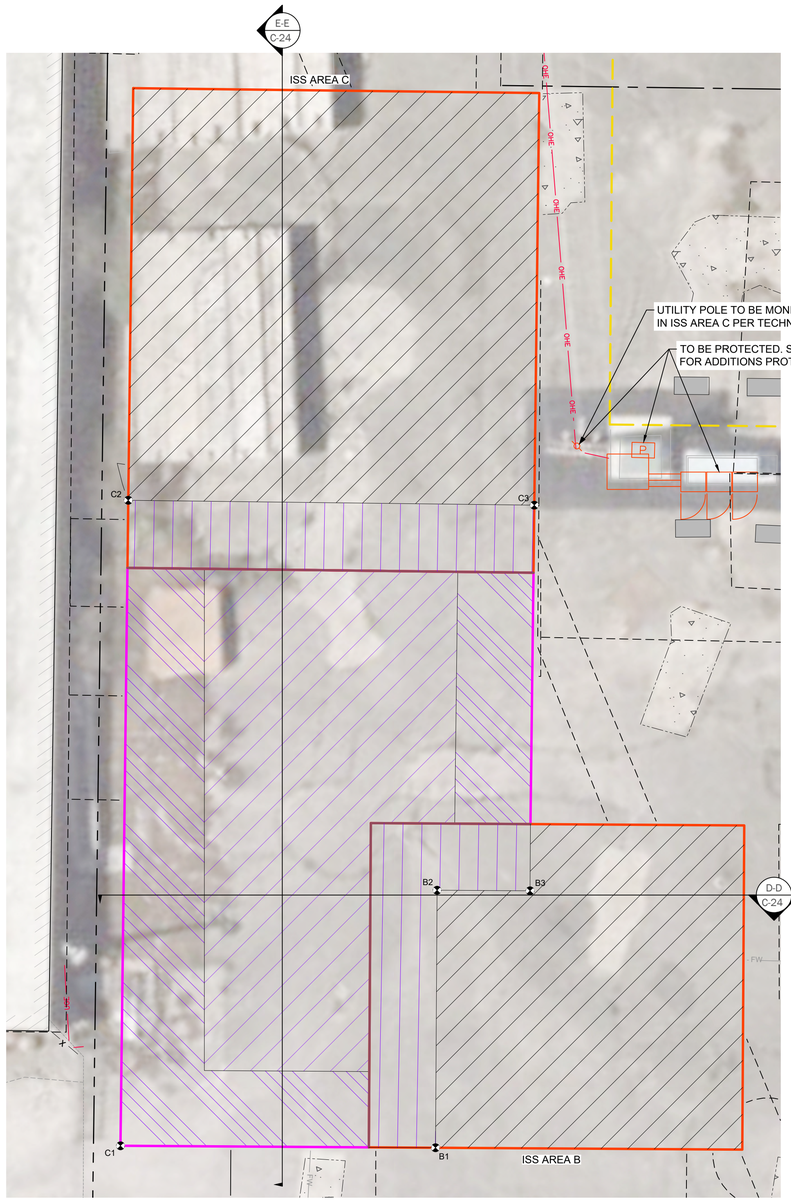
SITE: PORT OF BELLINGHAM BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: ISS ADDL EXCAV PLAN
DRAWING NO.: C-22
SHT 25 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT CI\ISS ADDL EXCAV PLAN.DWG Last Edited by: nathan.althauser on 9/1/26



ISS AREAS B & C - ISS SWELL MANAGEMENT AREA EXCAVATION PLAN (1 / C-23)
SCALE: 1" = 10'

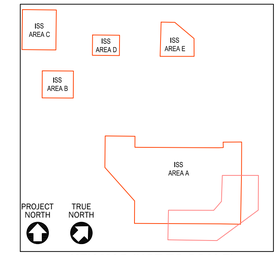


ISS AREA D - ISS SWELL MANAGEMENT AREA EXCAVATION PLAN (2 / C-23)
SCALE: 1" = 10'



ISS AREA E - ISS SWELL MANAGEMENT AREA EXCAVATION PLAN (3 / C-23)
SCALE: 1" = 10'

Control Point Table		
Point #	Northing	Easting
B1	640776.22	1240761.96
B2	640800.40	1240738.08
B3	640809.02	1240746.81
C1	640747.00	1240732.38
C2	640807.96	1240672.87
C3	640845.40	1240711.22
D1	640920.82	1240766.11
D2	640948.20	1240793.61
D3	640925.24	1240816.56
D4	640897.85	1240788.65
E1	641001.20	1240817.67
E2	641044.12	1240862.11
E3	641006.73	1240899.58
E4	640979.85	1240872.71
E5	640996.72	1240855.81
E6	640994.00	1240824.62



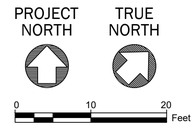
KEY MAP (NOT TO SCALE)

LEGEND

- ISS AREA
- EXCAVATION TO 10 FT BGS
- ELEMENTAL MERCURY-IMPACTED EXCAVATION SIDE SLOPES (APPROX. 1H:1V) FOR ISS TREATMENT, CONTRACTOR SHALL KEEP SEGREGATED
- EXCAVATION SIDE SLOPES (APPROX. 1H:1V)
- BACKFILLED ELEMENTAL MERCURY-IMPACTED SOILS FOLLOWING OBSTRUCTION REMOVAL AND PRIOR TO MIXING
- EXTENT OF SWELL MANAGEMENT AREA
- GRANITE LEASE BOUNDARY LINE
- OHE — EXISTING OVERHEAD POWER LINE
- EXISTING POWER POLE
- EXISTING SWITCHBOARD HLP
- P — EXISTING PSE PADMOUNT TRANSFORMER

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. EXCAVATION DEEPER THAN 4 FEET IN HEIGHT SHALL BE SLOPED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT PROPOSED EXCAVATION PLAN FOR ENGINEER REVIEW AND ACCEPTANCE PRIOR TO ANY EXCAVATION WORK.
3. EXCAVATION MUST BE SLOPED OR SHORED WHERE GREATER THAN 4 FT BGS.
4. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.



FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.

SIGNATURE

DATE

JOSEPH ROBERT DEMAL — STATE OF WASHINGTON — 24025852 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: ISS AREAS B,C,D,E - ISS SWELL MANAGEMENT AREAS EXCAVATION SECTIONS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

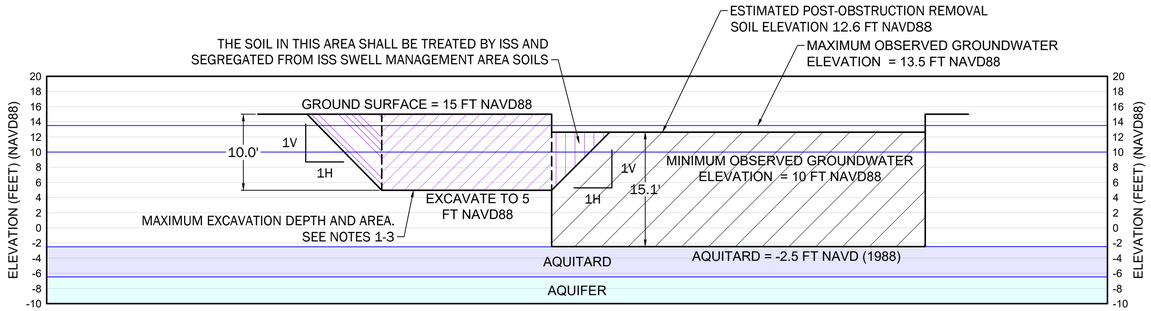
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE:	7/9/2026
PROJECT NO.:	AS210368B
FILE:	ISS ADDL EXCAV PLAN
DRAWING NO.:	C-23
SHT	26 OF 37

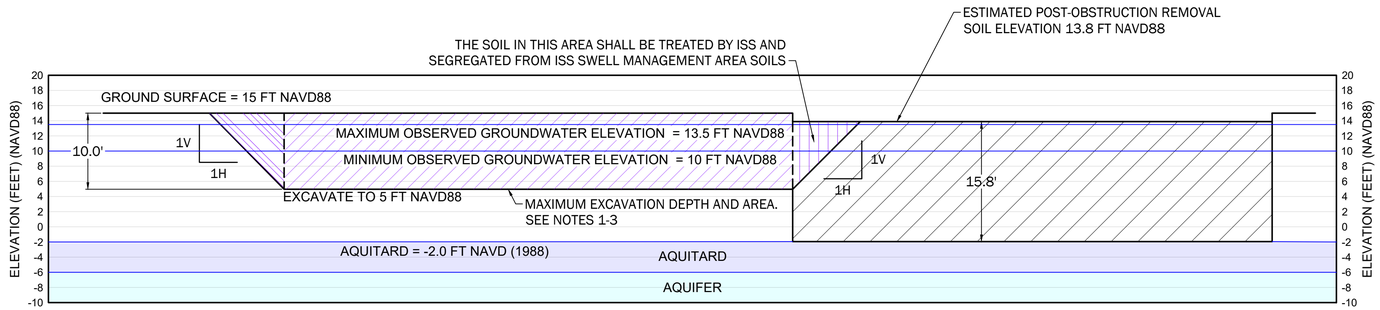
Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT C\ISS ADDL EXCAV PLAN.DWG Last Edited by: nathan.althauser on 9/1/26



ISS AREAS B & C - ISS SWELL MANAGEMENT AREA EXCAVATION CROSS SECTION

SCALE: 1" = 10'

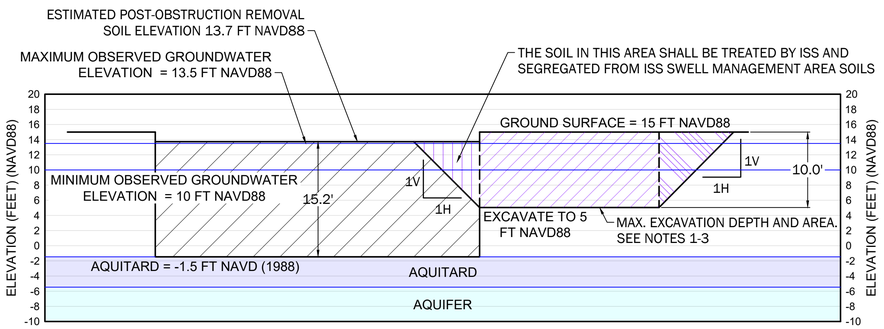
D-D
C-23



ISS AREAS B & C - ISS SWELL MANAGEMENT AREA EXCAVATION CROSS SECTION

SCALE: 1" = 10'

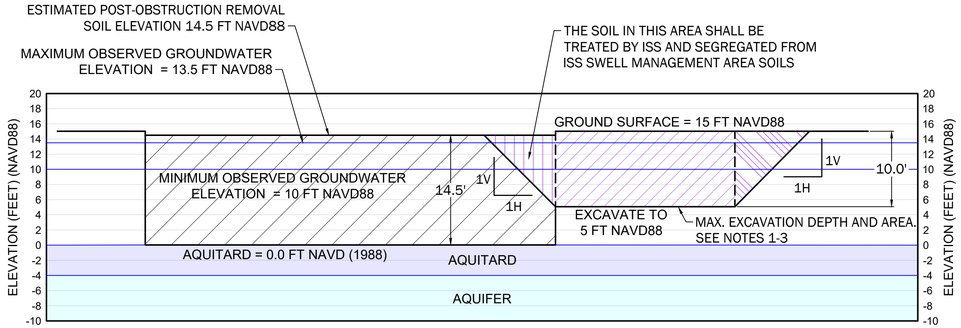
E-E
C-23



ISS AREA D - ISS SWELL MANAGEMENT AREA EXCAVATION CROSS SECTION

SCALE: 1" = 10'

C-C
C-23



ISS AREA E - ISS SWELL MANAGEMENT AREA EXCAVATION CROSS SECTION

SCALE: 1" = 10'

F-F
C-23

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. THE EXCAVATIONS SHOWN ON THIS SHEET ARE FOR ISS SWELL MANAGEMENT PURPOSES. THE CONTRACTOR SHALL NOT MANAGE ISS SWELL OUTSIDE OF THE ISS AND ISS SWELL MANAGEMENT AREAS.
3. THE CONTRACTOR SHALL EXCAVATE A SUFFICIENT VOLUME TO MANAGE ISS SWELL MATERIAL SO THAT THE FINAL TREATED ISS MONOLITH ELEVATIONS DO NOT EXCEED 14 FT NAVD88. THE INDICATED EXCAVATION DEPTHS ARE THE MAXIMUM ALLOWED DEPTHS FOR THE ISS SWELL MANAGEMENT AREAS. ALTERATION TO THE ISS SWELL MANAGEMENT AREAS MUST BE ACCEPTED BY THE ENGINEER IN WRITING.
4. THE ISS SWELL MANAGEMENT AREAS MAY BE BACKFILLED WITH ELEMENTAL-MERCURY IMPACTED SOILS FROM ISS AREAS FOLLOWING OBSTRUCTION REMOVAL FOR ISS TREATMENT WITHIN THE ISS SWELL MANAGEMENT AREAS OR WITH ISS SWELL MATERIAL GENERATED BY MIXING ACTIVITIES WITHIN ISS AREAS IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
5. EXCAVATION DEEPER THAN 4 FEET IN HEIGHT SHALL BE SLOPED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT PROPOSED EXCAVATION PLAN FOR ENGINEER REVIEW AND ACCEPTANCE PRIOR TO ANY EXCAVATION WORK.
6. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
7. CONTRACTOR MUST KEEP SOILS THAT SHALL BE TREATED BY ISS SEGREGATED FROM OTHER SOILS.
8. AQUITARD THICKNESS IS APPROXIMATE AND INFORMED BY PREVIOUS INVESTIGATIONS/INTERIM ACTIONS.

LEGEND

- MERCURY-IMPACTED SOIL FOR ISS TREATMENT
- EXCAVATION SIDE SLOPES (APPROX. 1H:1V)
- BACKFILLED ELEMENTAL MERCURY-IMPACTED SOILS FOLLOWING OBSTRUCTION REMOVAL AND PRIOR TO MIXING
- ELEMENTAL MERCURY-IMPACTED EXCAVATION SIDE SLOPES (APPROX. 1H:1V) FOR ISS TREATMENT, CONTRACTOR SHALL KEEP SEGREGATED
- AQUITARD
- AQUIFER

0 10 20 Feet

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REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

JOSEPH ROBERT HOMAN — STATE OF WASHINGTON — 24025852 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: ISS AREAS B,C,D,E - ISS SWELL MANEAGEMENT AREAS EXCAVATION SECTIONS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

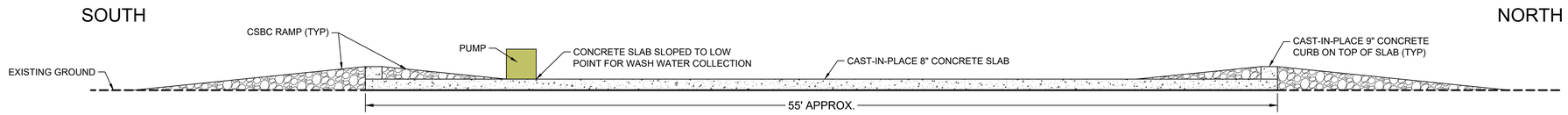
SITE: PORT OF BELLINGHAM BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

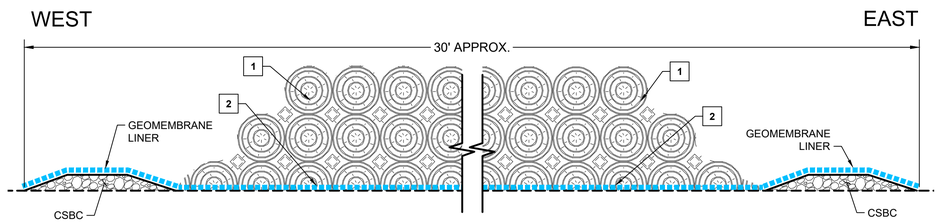
Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: ISS ADDL EXCAV PLAN
DRAWING NO.: C-24
SHT 27 OF 37

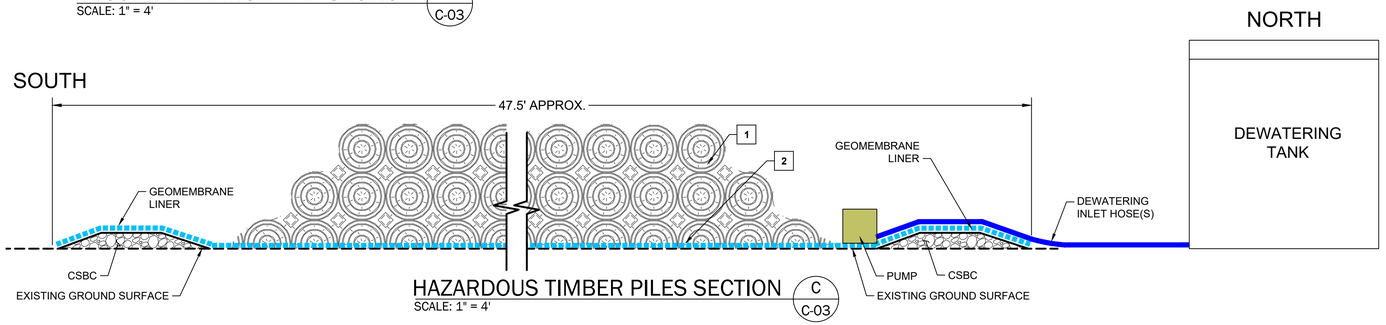
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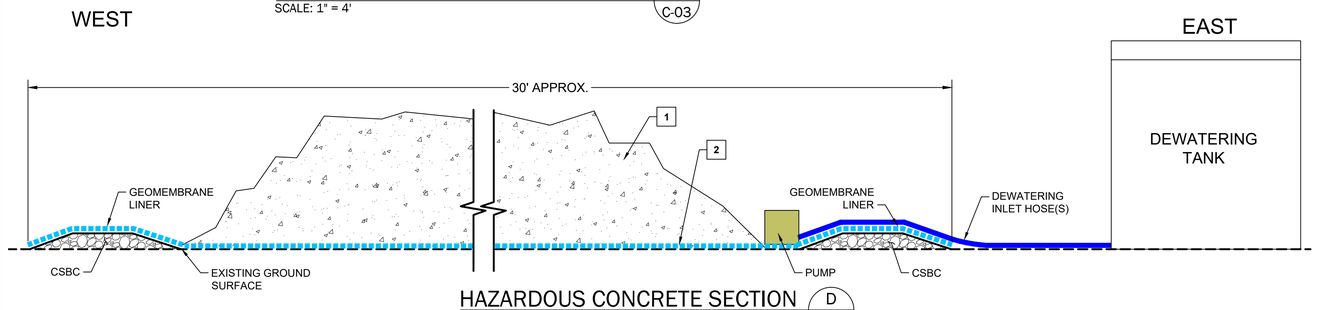
DECONTAMINATION PAD SECTION (A / C-03)
SCALE: 1" = 4'



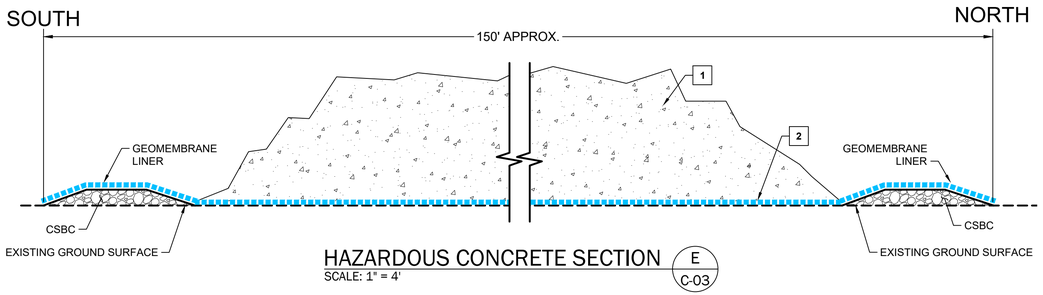
HAZARDOUS TIMBER PILES SECTION (B / C-03)
SCALE: 1" = 4'



HAZARDOUS TIMBER PILES SECTION (C / C-03)
SCALE: 1" = 4'



HAZARDOUS CONCRETE SECTION (D / C-03)
SCALE: 1" = 4'



HAZARDOUS CONCRETE SECTION (E / C-03)
SCALE: 1" = 4'

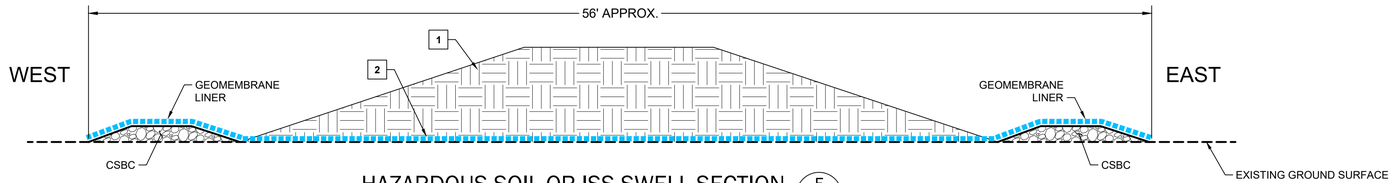
NOTES:

.. REFER TO SHEET G-02 FOR GENERAL NOTES AND LEGEND.

2. SOIL STOCKPILES ARE ANTICIPATED TO BE MANAGED ONE CELL AT A TIME, CONSISTENT WITH PILOT-TESTED OPERATIONS. THE SIZE, CONFIGURATION, AND BERM HEIGHTS SHOWN ARE CONCEPTUAL AND REPRESENT MINIMUM CONTAINMENT REQUIREMENTS. FINAL STOCKPILE GEOMETRY, ACCESS METHODS (INCLUDING TEMPORARY RAMPS IF REQUIRED), AND WATER MANAGEMENT MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MAY BE ADJUSTED BASED ON SEQUENCING, EQUIPMENT SELECTION, AND FIELD CONDITIONS, SUBJECT TO ENGINEER ACCEPTANCE.

3. PROTECT ALL EXPOSED GEOMEMBRANE FROM CONSTRUCTION ACTIVITIES, INCLUDING VEHICLE TRAFFIC, EQUIPMENT MOVEMENT, BUCKET CONTACT, STABILIZERS, OUTRIGGERS, PLACEMENT OF MATERIALS, ISS SWELL MATERIAL, CONCRETE, DEBRIS, AND TIMBERS, AND ANY OTHER CONSTRUCTION EQUIPMENT COMPONENTS THAT MAY CONTACT THE LINER. DIRECT CONTACT BETWEEN CONSTRUCTION EQUIPMENT AND EXPOSED GEOMEMBRANE IS NOT PERMITTED. USE STEEL PLATES, TIMBER MATS, PLYWOOD, GEOTEXTILE, OR OTHER ENGINEER-ACCEPTED MEANS TO PROTECT THE LINER.

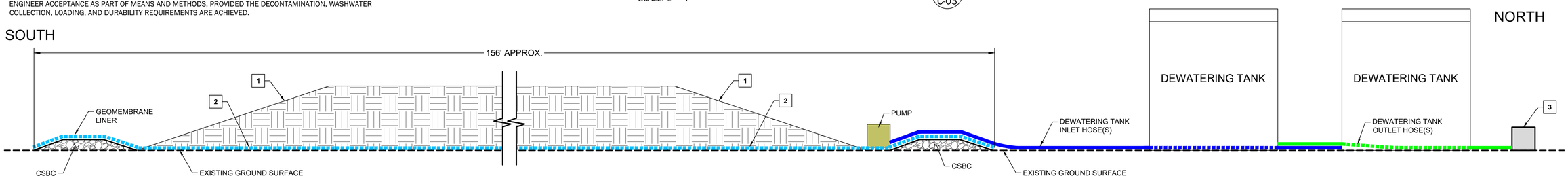
4. THE CONCRETE DECONTAMINATION PAD REPRESENTS THE BASIS-OF-DESIGN APPROACH AND WAS SELECTED TO PROVIDE A DURABLE, POSITIVELY DRAINED SURFACE FOR DECONTAMINATION OPERATIONS AND WASHWATER COLLECTION. EQUIVALENT ALTERNATIVES MAY BE PROPOSED BY THE CONTRACTOR FOR ENGINEER ACCEPTANCE AS PART OF MEANS AND METHODS, PROVIDED THE DECONTAMINATION, WASHWATER COLLECTION, LOADING, AND DURABILITY REQUIREMENTS ARE ACHIEVED.



HAZARDOUS SOIL OR ISS SWELL SECTION (F / C-03)
SCALE: 1" = 4'

CONSTRUCTION NOTES:

1. 5' MAX HEIGHT, 3:1 SIDE SLOPES FOR SOIL PILES. COVER OVERNIGHT OR IF NOT IN USE.
2. PLYWOOD, STEEL PLATES, TIMBER MATS, GEOTEXTILE OR OTHER ENGINEER-ACCEPTED MEANS TO PROTECT LINER.
3. FLOW METER AND SAMPLE PORT FOR MONITORING OF WATER. CONTRACTOR SHALL TREAT WATER AS NECESSARY TO MEET ASB DISCHARGE REQUIREMENTS. TREATED EFFLUENT SHALL BE CONVEYED OR TRANSPORTED TO THE OWNER'S ASB PUMP STATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.



HAZARDOUS SOIL OR ISS SWELL SECTION (G / C-03)
SCALE: 1" = 4'

0 4 8 Feet

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SIGNATURE

DATE

MARK WALTER — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: SOIL AND DEMOLITION DEBRIS STOCKPILE DETAILS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

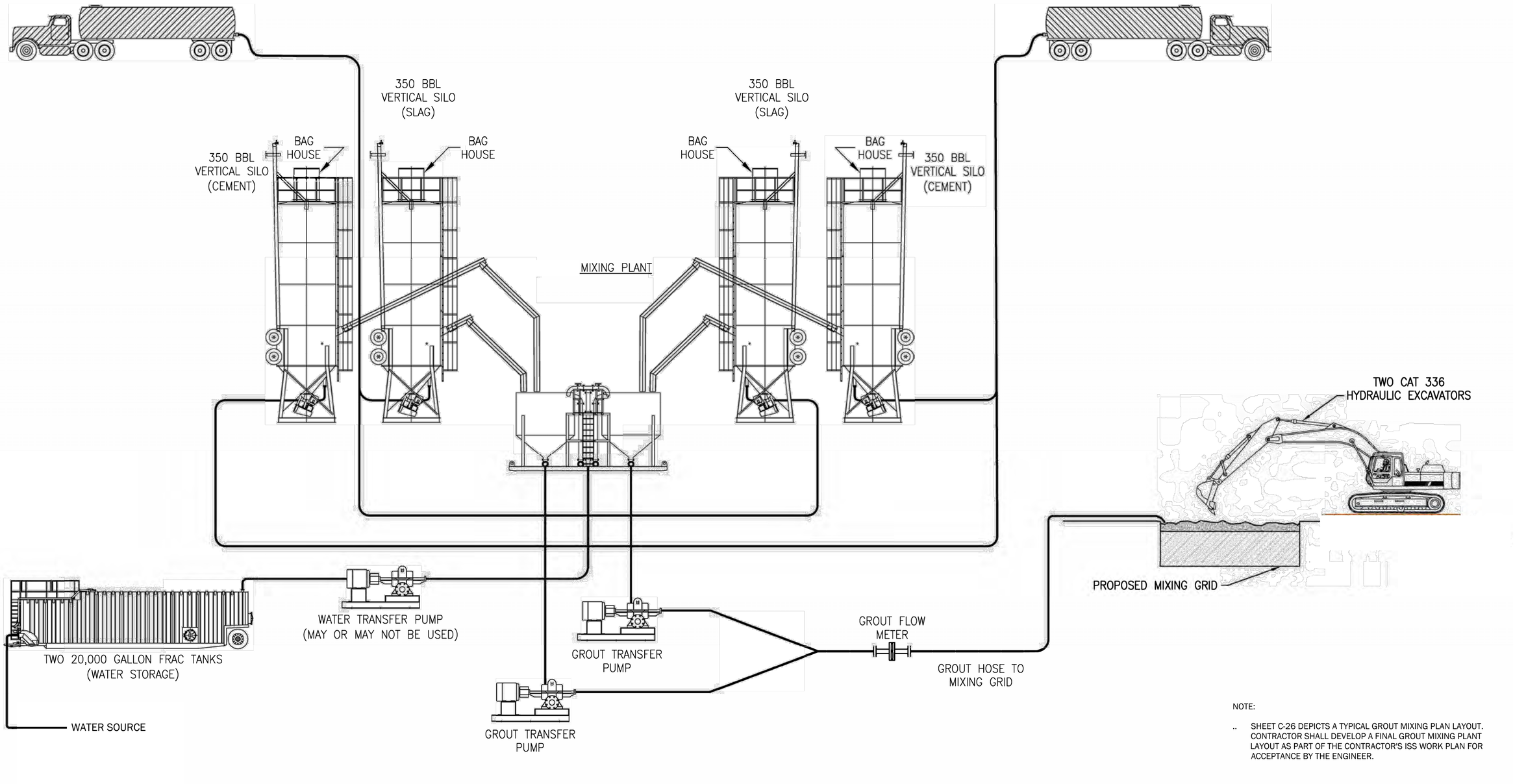
SITE: PORT OF BELLINGHAM BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: SOIL-DEMO_STKPILEPLAN
DRAWING NO.: C-25
SHT 28 OF 37

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NOTE:

.. SHEET C-26 DEPICTS A TYPICAL GROUT MIXING PLAN LAYOUT. CONTRACTOR SHALL DEVELOP A FINAL GROUT MIXING PLANT LAYOUT AS PART OF THE CONTRACTOR'S ISS WORK PLAN FOR ACCEPTANCE BY THE ENGINEER.

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DATE

JOSEPH ROBERT RINGMAN — STATE OF WASHINGTON — 240235852 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: TYPICAL GROUT MIXING PLANT PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

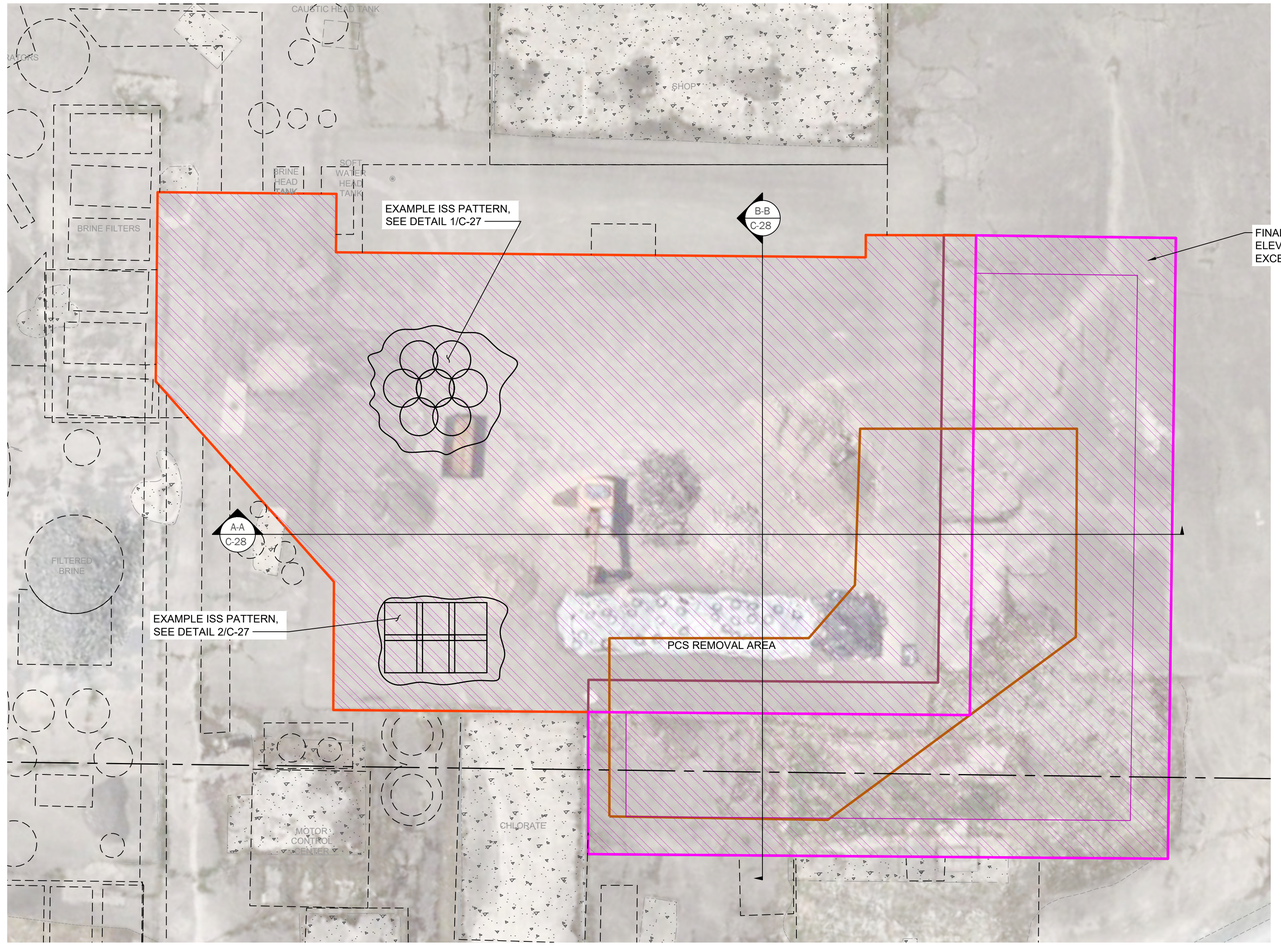
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BELLINGHAM, WHATCOM COUNTY, WASHINGTON

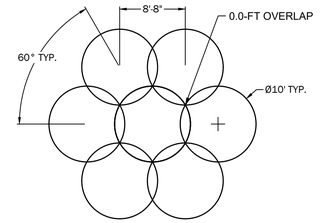
PORT OF BELLINGHAM Washington State

Geosyntec consultants

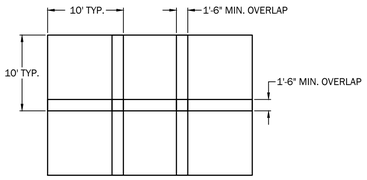
DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: MIXING PLANT
DRAWING NO.: C-26
SHT 29 OF 37

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EXAMPLE ISS COLUMN LAYOUT
10' DIAMETER COLUMN
NOT TO SCALE
1 / C-27



EXAMPLE ISS COLUMN LAYOUT
10' x 10' CELL
NOT TO SCALE
2 / C-27

LEGEND

- PETROLEUM CONTAMINATED SOIL (PCS) REMOVAL AREA
- ISS SWELL MANAGEMENT AREA
- ISS AREA
- ISS TREATMENT AREA

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. PRIOR TO ISS IMPLEMENTATION, THE CONTRACTOR SHALL PRE-CLEAR ALL ISS TREATMENT AREAS TO THE FULL ISS TREATMENT DEPTHS TO REMOVE ANY DEBRIS OR OBSTRUCTIONS THAT COULD IMPACT ISS IMPLEMENTATION OR PREVENT ACHIEVEMENT OF THE PERFORMANCE REQUIREMENTS.
3. CONTRACTOR SHALL IMPLEMENT ISS IN THE ISS TREATMENT AREAS IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

PROJECT NORTH / TRUE NORTH

0 20 40 Feet

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SIGNATURE

DATE

JOSEPH ROBERT ROGHAIR — STATE OF WASHINGTON — 24053853 — REGISTERED PROFESSIONAL ENGINEER

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: ISS AREA A - ISS PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

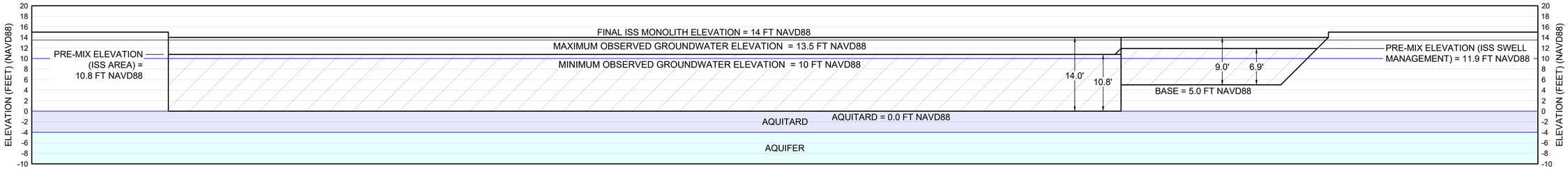
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: ISS A SOILMIX PLAN
DRAWING NO.: C-27
SHT 30 OF 37

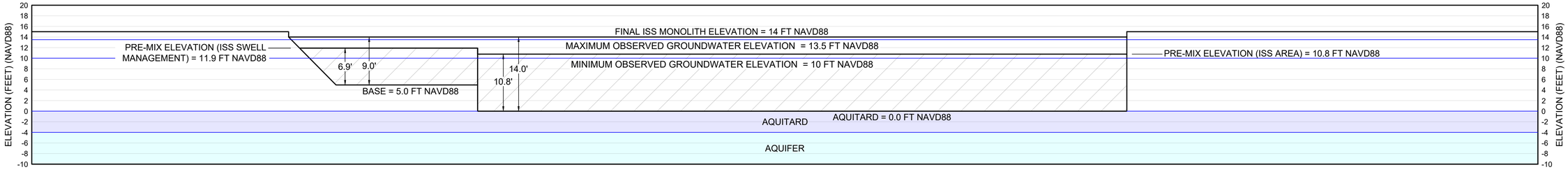
Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT CI\ISS A SOILMIX PLAN.DWG Last Edited by: nathan.althauser on 9/1/26



ISS AREA A - ISS CROSS SECTION A-A

SCALE: 1" = 10'

A-A
C-27



ISS AREA A - ISS CROSS SECTION B-B

SCALE: 1" = 10'

B-B
C-27

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. ISS SWELL MANAGEMENT AREA DIMENSIONS AND PRE-MIX ELEVATIONS ARE BASED ON ESTIMATED VOLUME OF OBSTRUCTIONS TO BE REMOVED, ESTIMATED PERCENTAGE OF ISS SWELLING, AND BACKFILLING OF THE ISS SWELL MANAGEMENT AREA WITH ELEMENTAL MERCURY-IMPACTED SOILS PRIOR TO ISS IMPLEMENTATION. THESE PARAMETERS ARE SUBJECT TO CHANGE PENDING FIELD CONDITIONS AND CONTRACTOR APPROACH.
3. AQUITARD THICKNESS IS APPROXIMATE AND INFORMED BY PREVIOUS INVESTIGATIONS/INTERIM ACTIONS.
4. THE ISS SECTIONS SHOWN ON THIS SHEET DEPICT ISS TREATMENT WITHIN ISS AREAS AND PREVIOUSLY EXCAVATED ISS SWELL MANAGEMENT AREAS BACKFILLED WITH ELEMENTAL MERCURY-IMPACTED SOILS. ISS TREATMENT MAY ALSO OCCUR ONLY WITHIN ISS AREAS AND SEQUENCED SUCH THAT ISS SWELL MATERIAL IS MOVED TO THE ISS SWELL MANAGEMENT AREA AFTER MIXING IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

LEGEND

- BACKFILLED ISS-AREA SOILS FOLLOWING OBSTRUCTION REMOVAL AND PRIOR TO MIXING
- AQUITARD
- AQUIFER

0 10 20 Feet

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SIGNATURE

DATE

JOSEPH ROBERT ADAMAK — STATE OF WASHINGTON — 24025852 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: ISS AREA A - ISS SECTIONS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

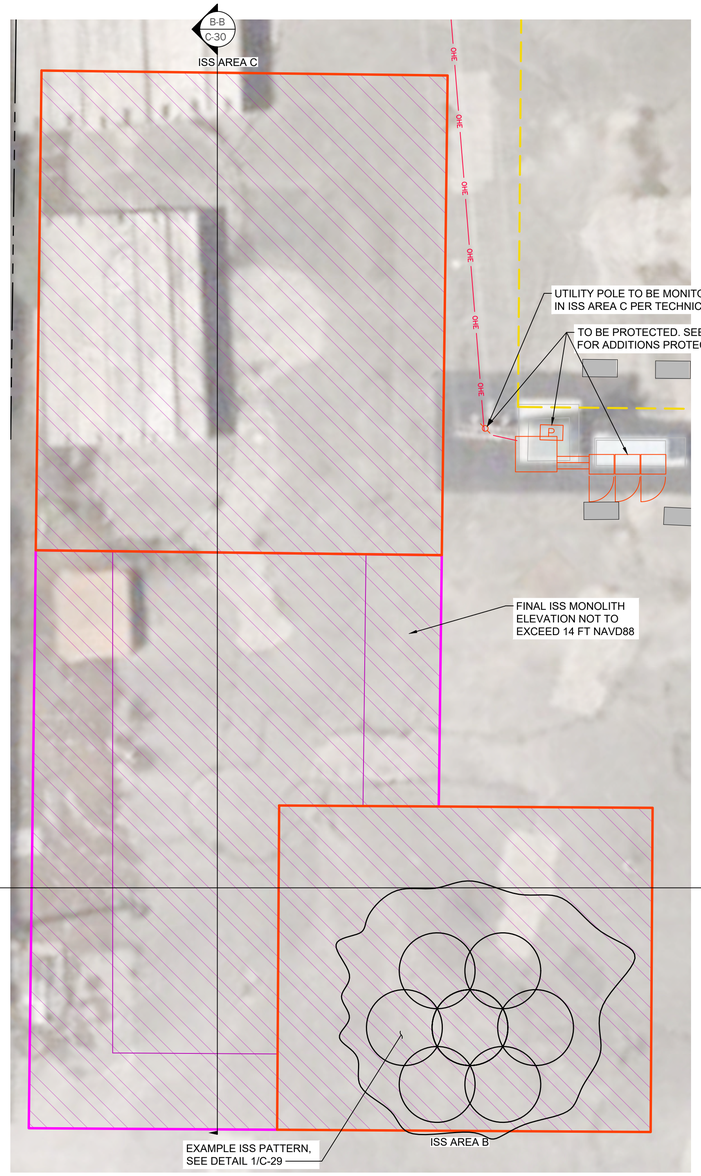
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: ISS A SOILMIX PLAN
DRAWING NO.: C-28
SHT 31 OF 37

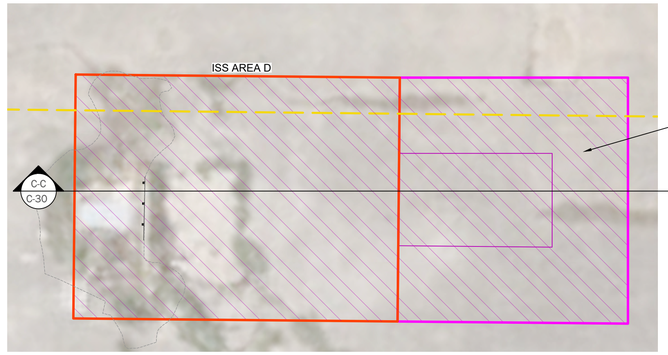
Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT C\ISS A SOILMIX PLAN.DWG Last Edited by: nathan.althauser on 9/1/26



ISS AREAS B & C - ISS PLAN

SCALE: 1" = 10'

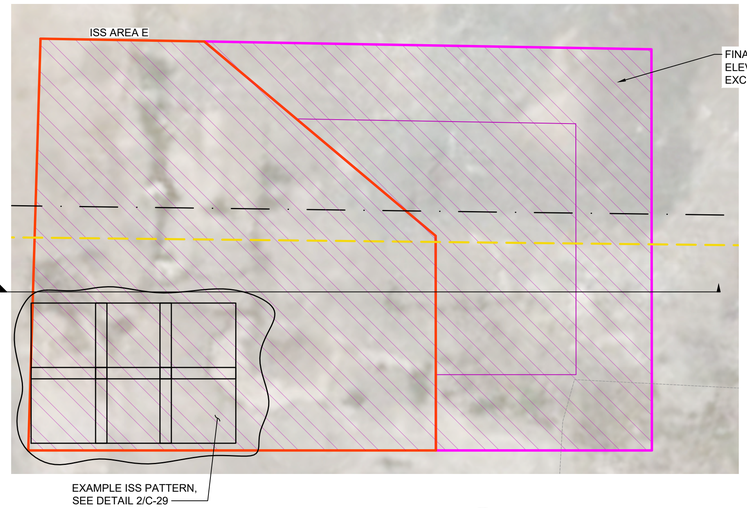
1 C-30



ISS AREA D - ISS PLAN

SCALE: 1" = 10'

2 C-30



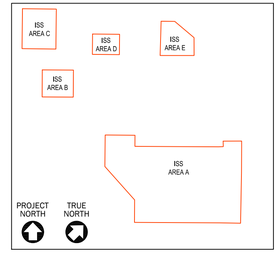
ISS AREA E - ISS PLAN

SCALE: 1" = 10'

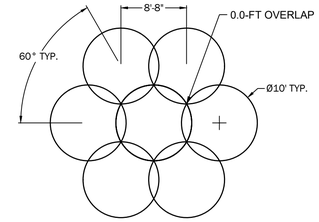
3 C-30

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. PRIOR TO ISS IMPLEMENTATION, THE CONTRACTOR SHALL PRE-CLEAR ALL ISS TREATMENT AREAS TO THE FULL ISS TREATMENT DEPTHS TO REMOVE ANY DEBRIS OR OBSTRUCTIONS THAT COULD IMPACT ISS IMPLEMENTATION OR PREVENT ACHIEVEMENT OF THE PERFORMANCE REQUIREMENTS.
3. THE CONTRACTOR SHALL IMPLEMENT ISS IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.



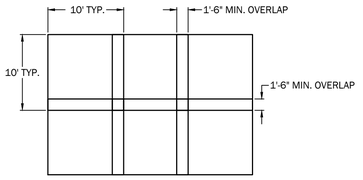
KEY MAP (NOT TO SCALE)



EXAMPLE ISS COLUMN LAYOUT 10' DIAMETER COLUMN

SCALE: 1" = 10"

1 C-29



EXAMPLE ISS COLUMN LAYOUT 10' x 10' CELL

SCALE: 1" = 10"

2 C-29

LEGEND

- ISS AREA
- ISS TREATMENT AREA
- EXTENT OF SWELL MANAGEMENT AREA
- GRANITE LEASE BOUNDARY LINE
- OHE — EXISTING OVERHEAD POWER LINE
- EXISTING POWER POLE
- EXISTING SWITCHBOARD HLP
- P — EXISTING PSE PADMOUNT TRANSFORMER

PROJECT NORTH TRUE NORTH

0 10 20 Feet

FOR REVIEW PURPOSES ONLY
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REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

JOSEPH ROBERT RIDDLE — STATE OF WASHINGTON — 24015353 — REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: ISS AREAS B,C,D,E - ISS PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

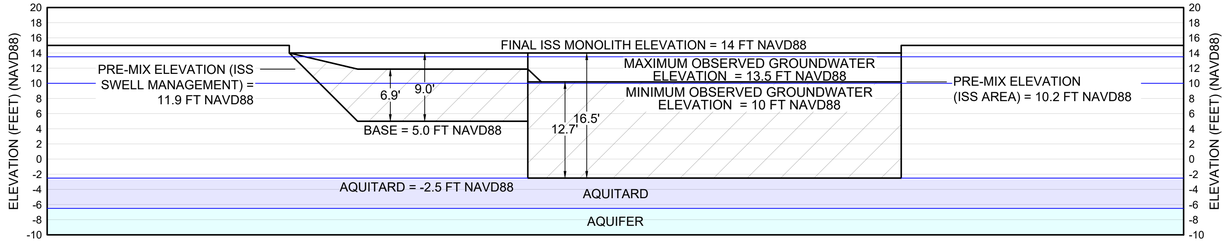
SITE: PORT OF BELLINGHAM BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

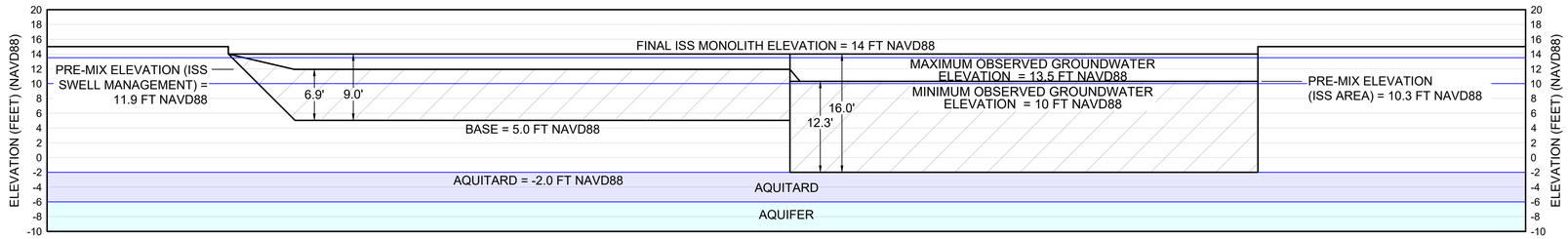
DATE:	7/9/2026
PROJECT NO.:	AS210368B
FILE:	ISS BCDE_SOIL MIX PLAN
DRAWING NO.:	C-29
SHT	32 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT C\ISS BCDE_SOIL MIX PLAN.DWG Last Edited by: nathan.althauser on 9/1/26



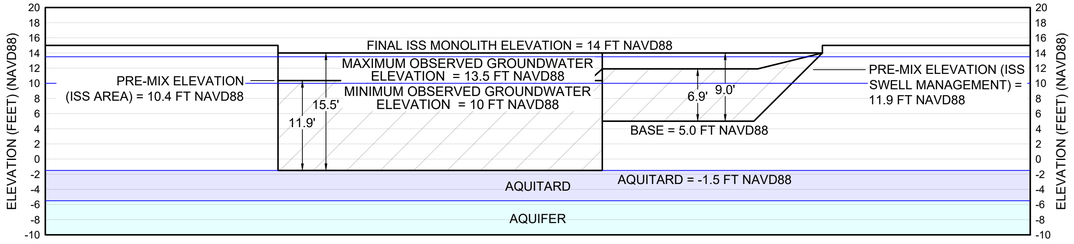
ISS AREAS B & C - ISS CROSS SECTION (A-A, C-29)

SCALE: 1" = 10'



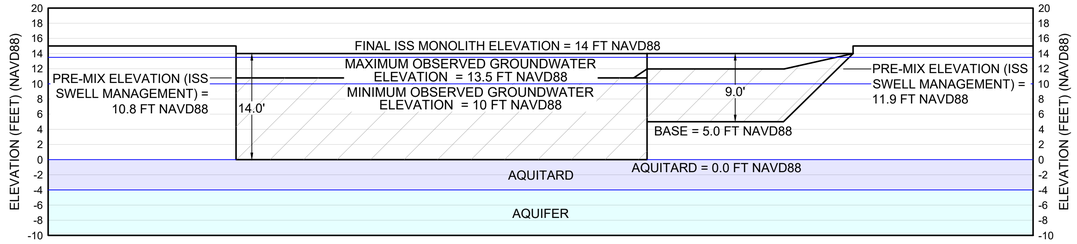
ISS AREAS B & C - ISS CROSS SECTION (B-B, C-29)

SCALE: 1" = 10'



ISS AREA D - ISS CROSS SECTION (C-C, C-29)

SCALE: 1" = 10'



ISS AREA E - ISS CROSS SECTION (D-D, C-29)

SCALE: 1" = 10'

NOTES:

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. ISS SWELL MANAGEMENT AREA DIMENSIONS AND PRE-MIX ELEVATIONS ARE BASED ON ESTIMATED VOLUME OF OBSTRUCTIONS TO BE REMOVED, ESTIMATED PERCENTAGE OF ISS SWELLING, AND BACKFILLING OF THE ISS SWELL MANAGEMENT AREA WITH ELEMENTAL MERCURY-IMPACTED SOILS PRIOR TO ISS IMPLEMENTATION. THESE PARAMETERS ARE SUBJECT TO CHANGE PENDING FIELD CONDITIONS AND CONTRACTOR APPROACH.
3. AQUITARD THICKNESS IS APPROXIMATE AND INFORMED BY PREVIOUS INVESTIGATIONS/INTERIM ACTIONS.
4. THE ISS SECTIONS SHOWN ON THIS SHEET DEPICT ISS TREATMENT WITHIN ISS AREAS AND PREVIOUSLY EXCAVATED ISS SWELL MANAGEMENT AREAS BACKFILLED WITH ELEMENTAL MERCURY-IMPACTED SOILS. ISS TREATMENT MAY ALSO OCCUR ONLY WITHIN ISS AREAS AND SEQUENCED SUCH THAT ISS SWELL MATERIAL IS MOVED TO THE ISS SWELL MANAGEMENT AREA AFTER MIXING IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

LEGEND

- BACKFILLED ISS-AREA SOILS FOLLOWING OBSTRUCTION REMOVAL AND PRIOR TO MIXING
- AQUITARD
- AQUIFER

0 10 20 Feet

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100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

JOSEPH ROBERT ADAMAT — STATE OF WASHINGTON — 24025852 — REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	JRR
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	MDW
APPROVED BY:	-

TITLE: ISS AREAS B,C,D,E - ISS SECTIONS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

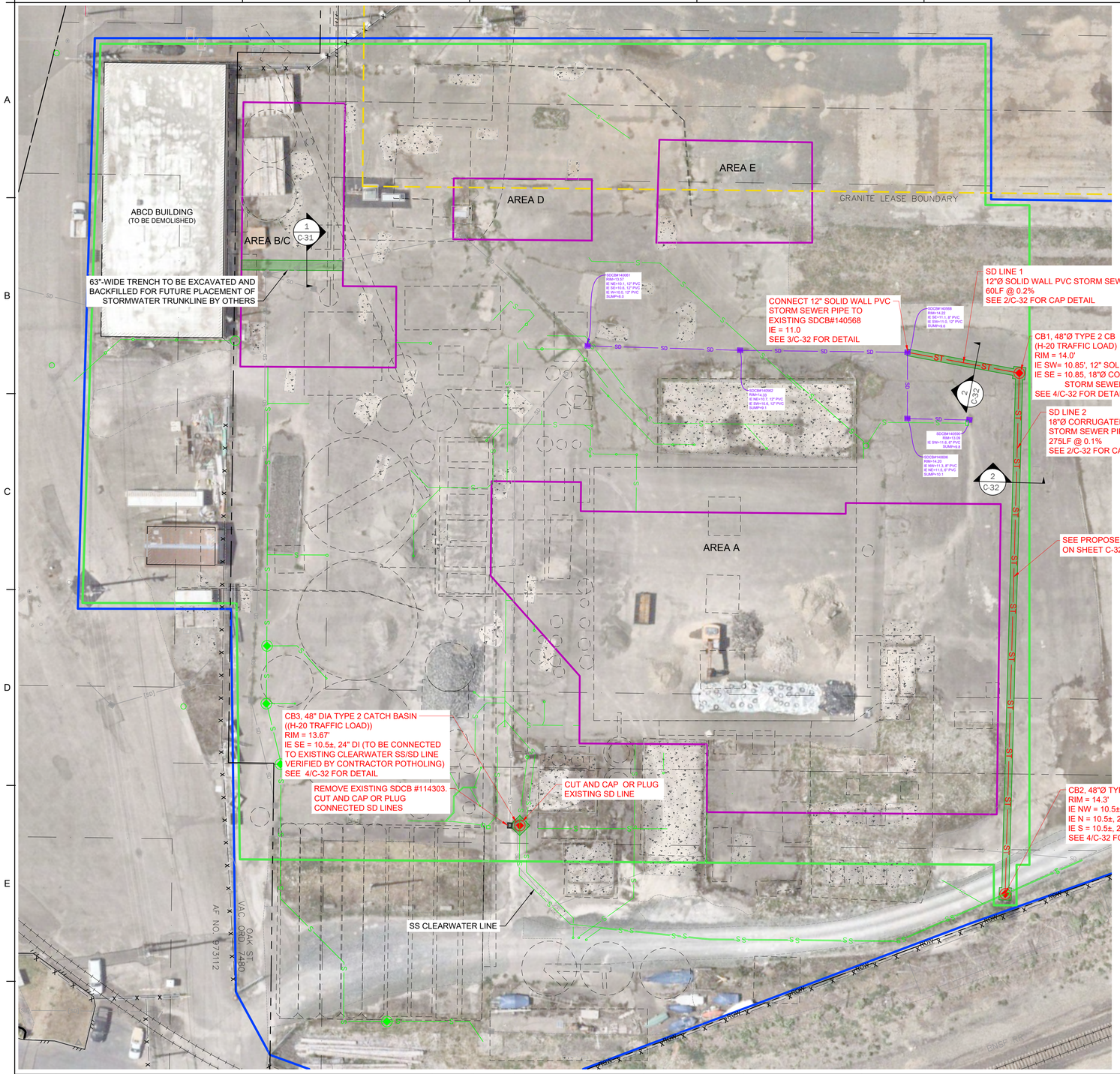
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

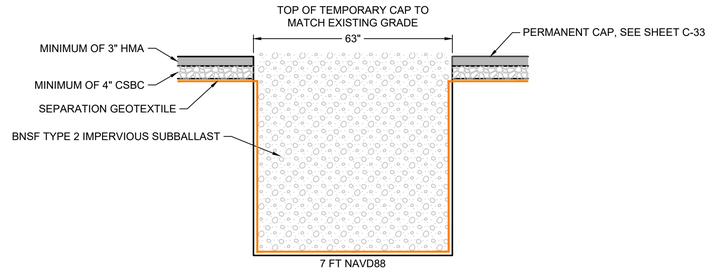
PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: ISS BCDE_SOIL MIX SECT
DRAWING NO.: C-30
SHT 33 OF 37

Q:\PORT OF BELLINGHAM\210368-B GP WEST CHLOR\2025-12 PROJECT C\ISS BCDE_SOIL MIX SECT.DWG Last Edited by: nathan.althauser on 8/31/26





STORMWATER TRUNKLINE TRENCH TEMPORARY CAP DETAIL 1/-

SCALE: 1" = 2"

LEGEND

- PROJECT LIMITS
- PROJECT DISTURBANCE LIMITS
- ISS TREATED SOIL LIMITS
- EXCAVATION AREA FOR STORMWATER FEATURE INSTALLATION
- PROPOSED STORM CATCH BASIN TYPE 2
- ST — PROPOSED STORM SEWER PIPE
- EXISTING STORM CATCH BASIN TYPE 1
- SD — EXISTING STORM LINE
- EXISTING STORM CATCH BASIN TYPE 1 TO BE ABANDONED
- EXISTING STORM CATCH BASIN TYPE 2 TO BE ABANDONED
- SD — EXISTING STORM LINE TO BE ABANDONED
- S — EXISTING SANITARY SEWER LINE
- GBSP BOUNDARY
- GRANITE LEASE BOUNDARY
- RIGHT-OF-WAY CENTERLINE
- HMA CL 1/2 IN PG 58H-22 (HMA)
- CRUSHED SURFACING BASE COURSE (CSBC)
- BNSF TYPE 2 IMPERVIOUS SUBBALLAST
- GRAVEL BACKFILL FOR PIPE ZONE BEDDING

NOTES

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. THE CONTRACTOR SHALL EXCAVATE, INSTALL, AND FINISH STORMWATER FEATURES IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
3. OBSTRUCTION LOCATIONS ARE APPROXIMATE AND INFORMED BY HISTORICAL DRAWINGS AND PREVIOUS INVESTIGATIONS/INTERIM ACTIONS. ADDITIONAL OBSTRUCTIONS MAY REQUIRE REMOVAL AS DETERMINED BY THE ENGINEER.
4. AGGREGATES SHALL BE COMPACTED IN ACCORDANCE WITH METHOD B OF SECTION 3-03.3(14)C OF THE WSDOT STANDARD SPECIFICATIONS.

PROJECT NORTH / TRUE NORTH

0 30 60 Feet

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REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

ERIK BRIAN PRANDA — STATE OF WASHINGTON — 49220 — REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	EBP
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	HNH
APPROVED BY:	-

TITLE: STORMWATER FEATURE INSTALLATION AND CAPPING PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

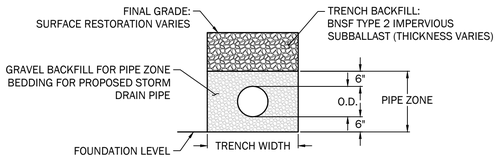
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE:	7/9/2026
PROJECT NO.:	AS210368B
FILE:	STORMWATER PLAN
DRAWING NO.:	C-31
SHT	34 OF 37

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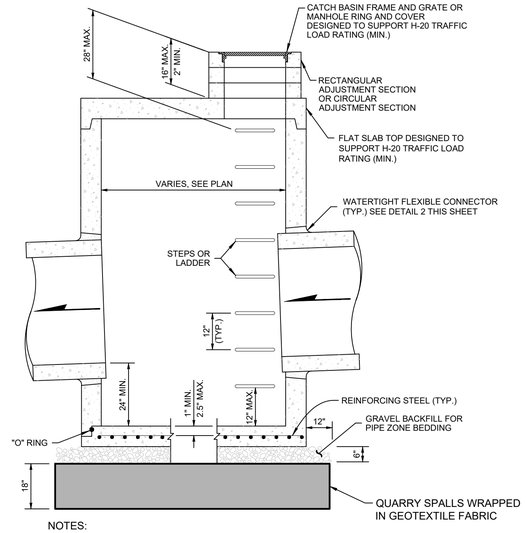
NOTES:

1. SEE STANDARD SPECIFICATIONS SECTION 9-03.12(3) FOR GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
2. SEE STANDARD SPECIFICATIONS SECTION 3-07.4 FOR MEASUREMENT OF TRENCH WIDTH.
3. ALL BEDDING AND BACKFILL SHALL BE COMPACTED PER STANDARD SPECIFICATION SECTION 7-08.

PIPE ZONE BEDDING AND BACKFILL

SCALE: NOT TO SCALE

2 C-31



NOTES:

1. NO STEPS ARE REQUIRED WHEN HEIGHT IS 4' OR LESS
2. THE BOTTOM OF THE PRECAST CATCH BASIN MAY BE SLOPED TO FACILITATE CLEANING.
3. THE FRAME AND GRATE SHALL BE INTEGRALLY CAST INTO THE ADJUSTMENT SECTION WITH FLANGE UP.
4. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" (IN) MINIMUM TO 2.5" (IN) MAXIMUM. PROVIDE A 1.5" (IN) MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, FILL THE GAP WITH JOINT MORTAR IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 9-04.3.
5. GEOTEXTILE SHALL BE NONWOVEN GEOTEXTILE FOR SEPARATION. ENDS OF GEOTEXTILE SHALL BE OVERLAPPED BY A MINIMUM OF TWO FEET.

TYPE 2 CATCH BASIN H-20 TRAFFIC LOAD

SCALE: NOT TO SCALE

4 C-31

CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAX. KNOCKOUT SIZE	MIN. DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

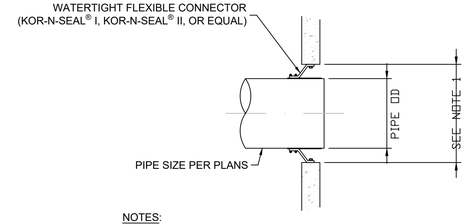
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP① PP④	SOLID WALL PVC②	PROFILE WALL PVC③
48"	24"	30"	24"	30"	48"
54"	30"	36"	30"	36"	48"
60"	36"	42"	36"	42"	48"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"
120"	66"	84"	60"	48"	48"
144"	78"	96"	60"	48"	48"

① CORRUGATED POLYETHYLENE STORM SEWER PIPE
(SEE STANDARD SPECIFICATION SECTION 9-05.20)

② (SEE STANDARD SPECIFICATION SECTION 9-05.12(1))

③ (SEE STANDARD SPECIFICATION SECTION 9-05.12(2))

④ POLYPROPOLYNE PIPE
(SEE STANDARD SPECIFICATION SECTION 9-05.24)



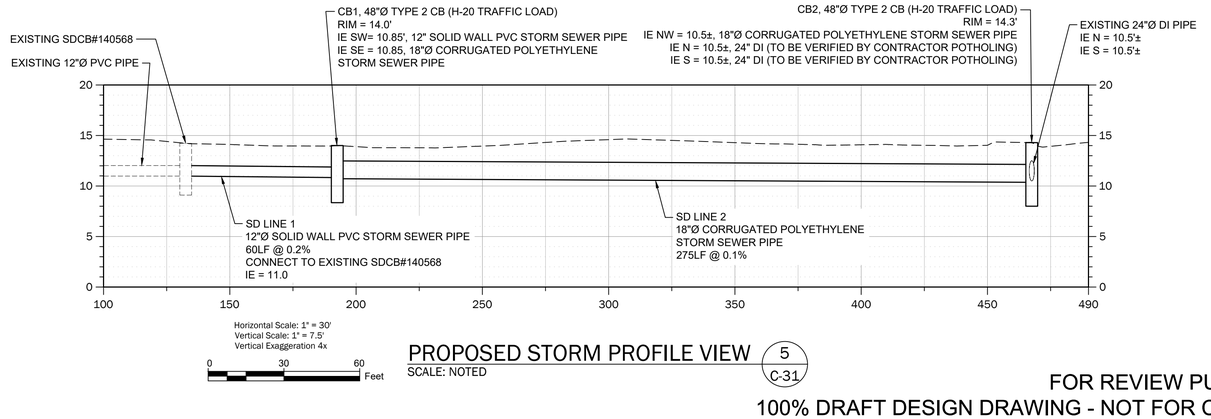
NOTES:

1. CONTRACTOR SHALL VERIFY MANHOLE CORE DIMENSION WITH MANUFACTURER.

PIPE TO CONCRETE STRUCTURE CONNECTION

SCALE: NOT TO SCALE

3 C-31



PROPOSED STORM PROFILE VIEW

SCALE: NOTED

5 C-31

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SIGNATURE

DATE

ERIK BRIAN PRESNELL — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

DESIGN BY:	EBP
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	HNH
APPROVED BY:	-

TITLE: STORMWATER FEATURES DETAILS

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

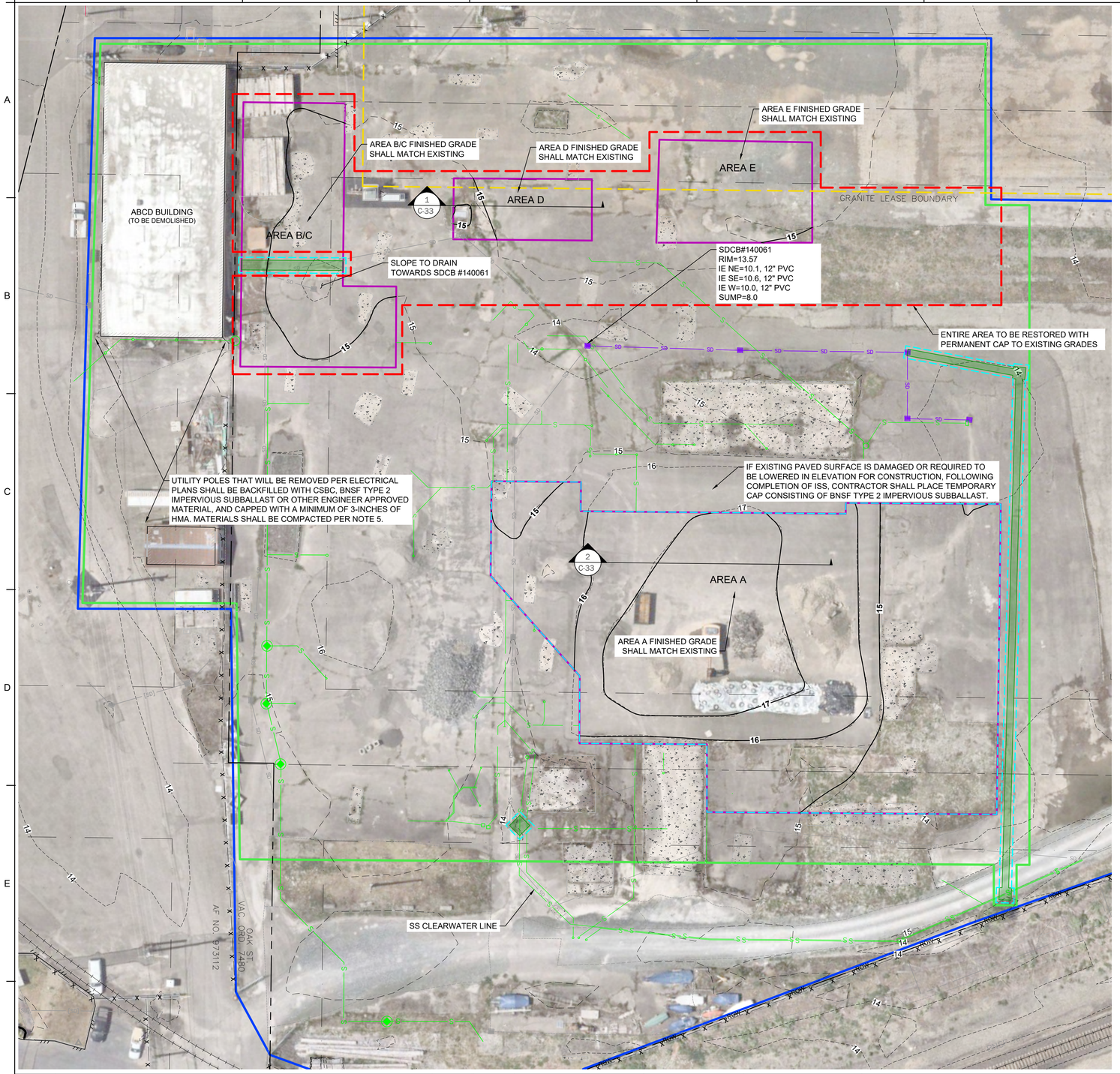
SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

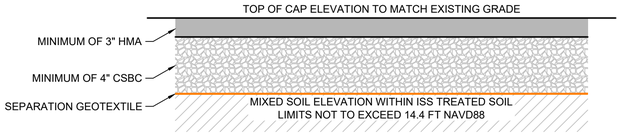
PORT OF BELLINGHAM Washington State

Geosyntec consultants

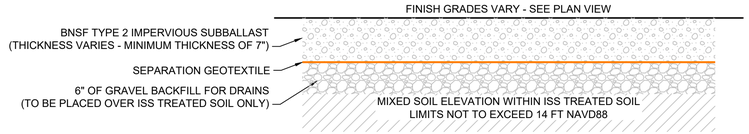
DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: STORMWATER DETAILS
DRAWING NO.: C-32
SHT 35 OF 37

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PERMANENT CAP SECTION 1
SCALE: 1" = 1"



TEMPORARY CAP SECTION 2
SCALE: 1" = 1'

LEGEND

- PROJECT LIMITS
- PROJECT DISTURBANCE LIMITS
- ISS TREATED SOIL LIMITS
- EXCAVATION AREA FOR STORMWATER FEATURE INSTALLATION
- PROPOSED PERMANENT CAP AREA
- PROPOSED TEMPORARY CAP AREA
- EXISTING CONTOUR (MAJOR)
- EXISTING CONTOUR (MINOR)
- PROPOSED CONTOUR
- EXISTING STORM CATCH BASIN TYPE 1
- EXISTING STORM LINE
- EXISTING STORM CATCH BASIN TYPE 1 TO BE ABANDONED
- EXISTING STORM CATCH BASIN TYPE 2 TO BE ABANDONED
- EXISTING STORM LINE TO BE ABANDONED
- EXISTING SANITARY SEWER LINE
- GBSP BOUNDARY
- GRANITE LEASE BOUNDARY
- RIGHT-OF-WAY CENTERLINE
- HMA CL 1/2 IN PG 58H-22 (HMA)
- CRUSHED SURFACING BASE COURSE (CSBC)
- BNSF TYPE 2 IMPERVIOUS SUBBALLAST
- GRAVEL BACKFILL FOR DRAINS
- MIXED SOIL
- SEPARATION GEOTEXTILE

NOTES

1. REFER TO SHEET G-02 FOR GENERAL NOTES AND ABBREVIATIONS.
2. DESIGNATED AREAS WITHIN THE PROJECT LIMITS WHERE NO FUTURE USE OR WORK ARE EXPECTED ARE TO BE FINISHED WITH A PERMANENT CAP. THESE LIMITS ARE SUBJECT TO CHANGE PENDING COORDINATION WITH OWNER AND PROPOSED FUTURE WORK.
3. ALL OTHER DISTURBED AREAS WITHIN THE PROJECT LIMITS ARE TO BE FINISHED WITH A TEMPORARY CAP.
4. REFER TO SHEET C-31 FOR STORMWATER FEATURE CAPPING DETAILS.
5. AGGREGATES FOR TEMPORARY AND PERMANENT CAPS SHALL BE COMPACTED IN ACCORDANCE WITH METHOD B OF SECTION 3-03.3(14)C OF THE WSDOT STANDARD SPECIFICATIONS. HOT MIX ASPHALT SHALL BE COMPACTED TO A MINIMUM OF 92 PERCENT REFERENCE DENSITY PER ASTM D20421
6. SEPARATION GEOTEXTILE SHALL BE ORANGE PER TECHNICAL SPECIFICATIONS.

PROJECT NORTH / TRUE NORTH

0 30 60 Feet

FOR REVIEW PURPOSES ONLY
100% DRAFT DESIGN DRAWING - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	APP

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SIGNATURE

DATE

ERIK BRIAN PRANDA — STATE OF WASHINGTON — 49220 — REGISTERED PROFESSIONAL ENGINEER — DRAFT

DESIGN BY:	EBP
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	HNH
APPROVED BY:	-

TITLE: GRADING AND CAPPING PLAN

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE:	7/9/2026
PROJECT NO.:	AS210368B
FILE:	CAP PLAN
DRAWING NO.:	C-33
SHT	36 OF 37

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BELLINGHAM BAY

ROEDER AVENUE

SQUALICUM CREEK PARK

SQUALICUM WAY

NORTHWEST AVENUE

BELLINGHAM GOLF AND COUNTRY CLUB

MERIDIAN STREET

5

CONTRACTOR TO PROVIDE TRAFFIC CONTROL AT BELLINGHAM SHIPPING TERMINAL ENTRANCE/EXIT ONTO CORNWALL AVENUE

PROJECT SITE

CORNWALL AVENUE

W LAUREL STREET

RAIL TRACKS

GRANARY AVENUE

ROEDER AVENUE

LEGEND

HAUL ROUTE

PROJECT LIMITS

0 500' 1000'

SCALE IN FEET

PROJECT NORTH

TRUE NORTH

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REV	DATE	DESCRIPTION	DRN	APP

MARK WALTER HOUGEN — STATE OF WASHINGTON — 26018267 — REGISTERED PROFESSIONAL ENGINEER

DRAFT

DESIGN BY:	MDW
DRAWN BY:	CMV, NLA
CHECKED BY:	HRG
REVIEWED BY:	JRR
APPROVED BY:	-

TITLE: TRAFFIC CONTROL AND HAUL ROUTE

PROJECT: OBSTRUCTION REMOVAL AND MERCURY IN SITU SOLIDIFICATION
CHLOR-ALKALI REMEDIAL ACTION UNIT, GP WEST SITE

SITE: PORT OF BELLINGHAM
BELLINGHAM, WHATCOM COUNTY, WASHINGTON

PORT OF BELLINGHAM Washington State

Geosyntec consultants

DATE: 7/9/2026
PROJECT NO.: AS210368B
FILE: TRAF_CTRL
DRAWING NO.: C-34
SHT 37 OF 37

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